Epitome : International Journal of Multidisciplinary Research
ISSN : 2395-6968

ANTIFUNGAL ACTIVITY OF SOME EXOTICS PLANT EXTRACTS AGAINST FRUIT ROTS FUNGAL PATHOGENS

* **Sonawane B N** ** **Sumia Fatima**

* Shri Dnyaneshwar Mahavidyalaya, Newasa, Dist. Ahmednagar (M. S.)

** Dr Rafiq Zakaria College for Women, Navkhanda, Jubilee Park, Aurangabad

Mail : sbn3310@gmail.com

ABSTRACT

Exotics plant extract of twenty plants from different families were tested for their antifungal activity against important saprophytic fruit rotting fungal species such as *Alternaria alternata, Cladosporium tenuissimum, Colletotrichum gloeosporioides, Fusarium oxysporum, Penicillium digitatum* and *Rhizopus stolonifer* which isolated from aonla, mango, papaya and lemon fruit samples. The test fungi were mainly associated with fruit as saprophytic mode during storage. Among twenty plants tested, aqueous extract of *Acacia farnesiana, Acacia nilotica , Argemone mexicana , Ricinus communis, Nerium indicum, Erythrina variegate, Datura metal, Coccinia grandis, Terminalia arjuna, Lantana camara, Calotropis gigantea, , Boerhavia repens, Catharanthus roseus , Coccinia grandis , Ipomoea carnea , Cannabis sativa and Euphorbia geniculata* have recorded significant antifungal activity against important fruit rotting fungal species tested. This PCE was higher due to It was found that *Acacia farnesiana (*70.32%) against *Fusarium oxysporum*, *Acacia nilotica* (76.66%) against *Fusarium oxysporum*, *Ricinus communis* (73.16%) against *Cladosporium*

tenuissimum, *Terminalia arjuna* (75.12%) against *Colletotrichum gloeosporioides*, *Boerhavia repens* (74.16%) against *Cladosporium tenuissimum*, *Coccinia grandis* (75.16%) against *Penicillium digitatum* , *Ipomoea carnea* (74.16%) against *Penicillium digitatum*, *Euphorbia geniculata*(70.10%) against *Rhizopus stolonifer* and *Argemone mexicana* (72.80%) against *Alternaria alternata* showed the maximum percentage of disease control efficacy. *Lawsonia inermis*, *Jatropha curcas*, and *Cassia fistula* showed the less percent of disease control efficacy against selected fungi.

KEYWORDS

Exotics plant extract, fruit rotting fungi, storage fruit

