The Study of Fungal Species Isolated from *Amaranthus viridis* and *Hibiscus cannabinus* in Relation To Field and Market .

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ABSTRACT

The microorganisms are known to colonize diversified habitats helping in recycling of elements, organic matter and also help in the plant growth and productivity. The substances like Soil, Rhizosphere, Rhizoplane and Phylloplane are considered as important ecological niches for millions of microorganisms. There are several field problems of crop plants and vegetable plants effecting yield potential which include pests and diseases. Most of the diseases in plants are caused by microorganisms such as fungi, bacteria and Actinomycetes. In India the family Malvaceae is represented by 22 genera and 110 species. In India the family Amaranthaceae is represented by 17 genera and 50 species occurring mostly in the warmer parts. Few plants are of medicinal value. There are several field problems of Crop plants and vegetable plants effecting yield potential which include pests and diseases. *Amaranthus viridis* is used as a medicinal herb in traditional Ayurvedic medicine. *Hibiscus cannabinus* is a leafy plant, which has many culinary uses. It is an excellent source of vitamin B6 ,rich source of Iron, vitamins C, folic acid and anti-oxidants essential for human nutrition. The Fungal speices isolated from the *Amaranthus* field samples shows the higher number of fungal populations followed by Rhizosphere ,Rhizoplane,Non -Rhizosphere and Phylloplane populations.The fungal species isolated from *Amaranthus* market samples were equally dominant in Non –Rhizosphere soils,Rhizosphere,Rhizoplane and Phylloplane populations. The fungal species isolated from *Hibiscus cannabinus* field are equally dominant in Rhizosphere and Rhizoplane and also in Phylloplane and Non-Rhizosphere soils. The Fungal species isolated from the *Hibiscus cannabinus* market from Non-Rhizosphere soils ,Rhizosphere ,Rhizoplane and Phylloplane are equally dominant

Key words: Rhizoplane, Rhizosphere, Phylloplane, Non-Rhizosphere, *Amaranthus viridis*, *Hibiscus cannabinus*, Fungal species.

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