

APPLICATION OF PLANT PRODUCTS TO CONTROL OF SOME SOILBORN FUNGAL PATHOGENS

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More than 15 plant species were tested for their antifungal effect on radial growth and spore germination of *Fusarium oxysporum f.sp cumini* causing cumin wilt and *Fusarium equisetii* causing dry rot of potato tubers and *Rhizoctonia solani* causing sugar beet root rot.

In this experiment cold water extracts and methanol extracts of various plants were prepared and their efficacy was tested against pathogens by using of filter paper method, poisoned food technique and steams of extracts. Influence of plant extracts on cumin wilt disease and dry rot of potato tubers evaluated by in vivo tests.

Seed extracts of *Trachyspermum copticum*, leaf extracts of *Lavandula angustifolia* and flower extracts of *Rheum ribes* effectively inhibited the radial growth and spore germination of these fungi by using of filter paper and poisoned food methods.

Steams of extracts in *T. copticum* and *Mentha pulegium* effectively inhibited the radial growth of fungi.

The in vivo tests indicated that these three extracts reduce disease incidence of cumin wilt disease and dry rot of potato tubers.

Key Words: antifungal effects, cold water extracts, methanol extracts, cumin wilt