IDENTIFICATION AND PHYTOCHEMICAL SCREENING OF ENDOPHYTES FROM MANGIFERA INDICA LOCATED AT DIFFERENT STATE OF INDIA

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ABSTRACT:- Endophyte is an endosymbiont, often a bacterium or fungus, that in-habits within a plant for atleast part of its life cycle without causing apparent disease. Since, endophytes are present everywhereso found in all species of plant.A total seventeen endophytic fungi are isolated from spikes of *Pinusroxburghi* from Garhwal, Pauri region of Uttrakhand. Binary culture with fungal strains CS2, RH16, and RH5 introduced highest quantities of unexpected metabolites in grape cells. Antimicrobial activity is determined for crude ethyl acetate extracts against pathogenic living causing organismslike*Escherichia coli, Staphylococcus aureus, Salmonella typhimurium, Candiba albicans* etc using agar diffusion assay.Endophytic fungi are further studied for their physiochemical properties and their symbiotic relationship with their host plant. Endophytesare used for treatment of various illnessin folkfore diseases. There are differentendophyteswhich are observedunder electron microscope. On the basis of spore and presence of mycelium,endophytic fungi are identified.Fungal endophytescontain secondary metabolites that plays akeyrole in pharma industries.

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