

Effect of plant leaf extract on red rot disease of sugarcane caused by fungus *Colletotrichum falcatum* in Uttar Pradesh

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ABSTRACT : The antifungal activity of ten different medicinal plants namely *Aloe vera*, *Ocimum sanctum*, *Cenetella asiatica*, *Piper betle*, *Calotropis gigantea*, *Vitex negundo*, *Ocimum basilicum*, *Azadirachta indica*, *Eucalyptus globales* and *Parthenium hysterophorus* were tested against plant pathogenic fungus (red rot disease causing agent) by agar well –diffusion method. The plants leaves were extracted with various solvents like chloroform and ethanol. Among the different plant tested, all the three solvents of the *Vitex negundo* showed maximum antifungal activity (25 mm) against the plant pathogen tested. Whereas the other plant extracts were showed moderate to minimum antifungal activity.

Key Words : Effect, plants leaf, extract, *Colletotrichum falcatum*, red rot disease.