EFFECT OF CULTURE FILTRATES OF PHYLLOPLANE FUNGI ON CONIDIAL GERMINATION OF ALTERNARIA ALTERNATA AND COLLETOTRICHUM CAPSICI

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Abstract: In vitro antagonistic activity of culture filtrates of phylloplane fungi was tested against pathogens causing diseases of Impatiens balsamina. The conidia germination of Alternaria alternata was greatly inhibited by culture filtrate of Trichoderma viride followed by Aspergillus flavus, A. niger, Chaetomium globosum and Curvularia lunata. Germ tube growth was inhibited by all test fungi, maximum by Trichoderma viride followed by Aspergillus niger, A. flavus and Chaetomium globosum. Maximum inhibition of conidia germination of Colletotrichum capsici was caused by Trichoderma viride followed by Aspergillus niger, Fusarium oxysporum, Aspergillus flavus and Chaetomium globosum. Maximum inhibition of germ tube growth was also caused by Trichoderma viride followed by Aspergillus niger, Fusarium oxysporum and Aspergillus flavus.

Keywords: Fungi, Germination, Alternaria alternata, Colletotrichum capsici

REFERENCES