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INTERNATIONAL JOURNAL OF PLANT PROTECTION VOLUME 8 | ISSUE 2 | OCTOBER, 2015 | 228-233

• e ISSN-0976-6855 | Visit us : www.researchjournal.co.in

RESEARCH PAPER

DOI: 10.15740/HAS/IJPP/8.2/228-233

Evaluation of fungicides, botanicals and biocontrol agents against banana antharcnose disease under *in vitro* condition

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ARITCLE INFO

Received:20.01.2015Revised:20.07.2015Accepted:05.08.2015

KEY WORDS : Banana, Antharcnose, Colletotrichum gloeosporioides, Trichoderma harzianum *in vitro* evaluation of fungicides, Botanicals

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ABSTRACT

Banana (*Musa paradisiaca* L.) is the most popular tropical fruit crops grown in India. It is affected by several post-harvest diseases among them anthracnose (*Colletotrichum gloeosporioides* (P. Henn), caused huge loss in quality and quantity of fruits. Therefore affords were made to screen the different systemic, contact and combination of six fungicides, botaniclas and biocontrol agents *in vitro* condition against test fungus. Among systemic fungicides, carbendazim 50 per cent WP at 50 ppm, contact fungicides copper oxychloride 50 per cent WP at 500 ppm and combination of fungicides carbendazim 12 per cent WP + mancozeb 63 per cent WP at 100 ppm concentrations were found the most effective and gave cent per cent growth inhibition of *C. gloeosporioides*. Lantana leaves extract at 10 per cent solvent was also effective and resulted 66.41 per cent growth inhibition of *C. gloeosporioides*. Among the biocontrol agents, *Trichoderma harzianum* gave 62.43 per cent growth inhibition of *C. gloeosporioides* (62.43%).

How to view point the article : Ramani, V.N., Davara, D.K., Anadani, V.P. **and** Detroja, A.M. (2015). Evaluation of fungicides, botanicals and biocontrol agents against banana antharcnose disease under *in vitro* condition. *Internat. J. Plant Protec.*, **8**(2) : 228-233.

