

## **Bioefficacy of plant extracts to manage damping-off disease of tomato caused by *Rhizoctonia solani***

**Sadhna Singh**

Received May 7, 2017 and Accepted August 3, 2017

**ABSTRACT :** Four selected plant parts' extract viz. *Azadirachta indica*, *Eucalyptus globulus*, *Lantana camara* and *Calotropis procera* were studied against damping-off disease of tomato caused by *Rhizoctonia solani*. All the plant leaf extracts showed significant effect at different concentrations (40% and 60%) on the seed germination and damping-off disease incidence against *Rhizoctonia solani* as compared to control and check (carbendazim 0.2%) at 7 and 14 DAS. Various botanicals exhibited stimulatory action with regards to seed germination when compared to the control. Among the leaf extracts of 4 plants, maximum effect was observed by *Lantana camara*. Seed treatment with *Lantana camara* showed highest germination (49.00 at 7 DAS and 68.00 at 14 DAS), lowest pre-emergence damping-off disease incidence (31.00 at 7 DAS and 12.00 at 14 DAS) and lowest post-emergence damping-off disease incidence (2.00 at 7.00 DAS and 6.00 at 14 DAS) of *Rhizoctonia solani*.

**Key Words:** Plant extracts, *Rhizoctonia solani*, damping-off disease incidence.