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## **Research Article**

## *In vivo* screening of turmeric (*Curcuma longa* L.) germplasm of different duration groups against rhizome rot caused by *Pythium* and *Fusarium* spp.

M. Lakshmi Naga Nandini, C.H. Ruth and K. Gopal

## **SUMMARY**

Field screening studies were conducted over a period of one year *i.e.* 2016-2017 in augmented block design with 120 available germplasm lines of turmeric (*Curcuma longa* L.) at College of Horticulture, Anantharajupeta. These lines were screened against the rhizome rot caused by *Pythium graminicolum* and *Fusarium solani* under natural conditions. The severity of rhizome rot is ranged from 0.00 to 92.86 per cent irrespective cultures screened. Among the germplasm cultures screened, cultures like IC-319341, Tenali Kasturi, VK-23, GS, IC-420606, IC-033007, IC-211641, PTS-8, Vikici, Dhindigam, ACC-48, Sonia, NB-60, Kasturi in short duration group, Prathibha, Thodupuztha, KTS-9, Prasangali, ACC-79 in medium duration group and NH-1, Ranga, Salem, Salem-2, Wagon, PTS-12, CL-8, CL-9, CL-10, CL-3, CL-4 in long duration group were resistant to rhizome rot showed 0.0% diseases incidence. More disease incidence (susceptible reaction) of rhizome rot was observed in long duration group.

Key Words : Germplasm, Rhizome rot, Turmeric, Varieties, Screening, Resistant

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## MEMBERS OF THE RESEARCH FORUM

Author to be contacted :

M. Lakshmi Naga Nandini, Department of Plant Pathology, College of Horticulture, Dr. Y.S.R. Horticultural University, Anantharajupeta (A.P.) India Email : mssp11554@gmail.com

Address of the Co-authors: C.H. Ruth, Department of Plant Pathology, College of Horticulture, Dr. Y.S.R. Horticultural University, Anantharajupeta (A.P.) India

K. Gopal, Department of Plant Pathology, Dr. Y.S.R. Horticultural University, Venkataramannagudem (A.P.) India