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RESEARCH PAPER

Estimation of deteriorative effect of *Aspergillus niger* on onion seed germination and seedling vigour

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SUMMARY

Samples of onion seeds were collected from farmer's houses to prove the pathogenicity of mycoflora, two test were performed *viz.*, Seed and bulb inoculation techniques. Seed inoculation techniques revealed that *Aspergillus niger* reduced seed germination, root and shoot elongation by causing higher percentage of pre and post-emergence mortality and subsequently it also reduced vigor index in comparison to control. The same fungi was also found to cause bulb rot by inoculating the healthy surface sterilized white bulbs and it was observed that *Aspergillus niger* found to be more pathogenic in comparison to *Aspergillus flavus* per cent incidence and per cent intensity and it caused maximum per cent incidence (4.00% / 100.00%) and per cent intensity (2.80% / 30.00%).

Key Words : Seed germination, Onion, Vigour index, Inoculation

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