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Analysis of genetic diversity among the isolates of *Pseudomonas fluorescens* isolated from onion rhizosphere region

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ABSTRACT : *Pseudomonas fluorescens* was isolated from different onion growing areas of Tamil Nadu, India and they were screened against *Fusarium oxysporum* f.sp.*cepae in vitro*. RAPD analysis was carried out using twelve random primers, each of them consisted of 10 base pairs. Analysis of the genetic co-efficient matrix derived from the scores of RAPD profile, showed that minimum and maximum per cent similarities among *Pseudomonas fluorescens* isolates were in the range of 10 to 92 per cent, respectively. Cluster analysis by using the unweighted pair-group method with arithmetic average (UPGMA), clearly separated the isolates into 2 major clusters (A and B) confirming the genetic diversity among the isolates of *Pseudomonas fluorescens* isolated from onion.

KEY WORDS : *Pseudomonas fluorescens*, Onion rhizosphere soil, Genetic diversity, RAPD

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