Isozyme Variability in *Phaeoisariopsis personata* (Berk. and Curt.) von Arx Causing Late Leaf Spot of Groundnut (*Arachis hypogaea* L.)

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**SUMMARY**

*Phaeoisariopsis personata* (Berk and Curt.) von Arx causing late leaf spot (LLS) of groundnut is one of the major constraints for its production in Karnataka. Isozyme studies conducted to know the molecular variability among the isolates. Fifteen commonly growing groundnut varieties infected by *Phaeoisariopsis personata* in the Main Agricultural Research Station (MARS), Dharwad and nine isolates obtained from different locations of North Karnataka were selected. Isozyme studies revealed the variations among the isolates since they produced an extra band with respect to various enzymes, Peroxidase (PO) and Polyphenoloxidase (PPO). Greater peroxidase and polyphenol oxidase activity with similar banding pattern were noticed in the isolates from V14, VIS, VI and V3, V4, V5, V8, V9 and VIS under Dharwad location. Among the nine isolates collected from different locations, revealed that the isolate HAN (Hanumanamatti) and ARA and NIP (from Arabhavi and Nippani) showed higher PO and PPO activity, which produced maximum of three bands with little variation in Rm values.

**Key words :**

Groundnut, Late leaf spot, Isozymes variability, *Phaeoisariopsis personata*