

Molecular detection of Mungbean Yellow Mosaic India Virus (MYMIV) infecting soybean in Madhya Pradesh

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ABSTRACT : Detection of MYMIV infecting soybean was carried out during *Kharif* 2016 using DNA-A (cp) and DNA-B specific molecular markers. Among ten leaf samples collected from different villages, nine were found to possess virus irrespective of the density of whiteflies in concerned region. One sample from Tigan village was found to be virus free even though it was having yellow mosaic disease (YMD) symptoms and whitefly density in the area was moderate. Deficiency of micronutrients could be a reason for YMD like symptoms in virus free plant. There was no correlation between the density of whiteflies and presence of virus in host plant. Molecular markers can be successfully used for detection of MYMIV infecting soybean.

Key Words : Mungbean Yellow Mosaic India Virus (MYMIV), yellow mosaic disease (YMD), DNA isolation, PCR amplification, molecular markers, soybean, whitefly.