CYTOPATHOLOGICALLY STUDY OF JATROPHA CURCAS INFECTED WITH JATROPHA MOSAIC DISEASE

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Abstract: Plant of Jatropha curcas infected with Jatropha mosaic disease by the whitefly (Bemisia tabaci), were studied cytopathologically. Plant leaves with typical symptoms exhibited the nucleopathic effects that are the characteristic of known whitefly-transmitted geminiviruses. Electron-dense fibrilar bodies occurred at an early stage of infection and were closely associated with virus like particales at a late stage of infection. Cytoplasmic inclusions which have membrane bound oval bodies containing granular or fibrilar material were also observed. Presence of fibrilar bodies suggested that Jatropha mosaic disease caused by a whitefly-transmitted geminivirus.

Keywords: Electromicroscopy, cytopathology, Jatropha curcas

REFERENCES