

# 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 fibrillar bodies occurred at an early stage of infection and were closely associated with virus like particles at a late stage of infection. Cytoplasmic inclusions which have membrane bound oval bodies containing granular or fibrillar material were also observed. Presence of fibrillar bodies suggested that *Jatropha* mosaic disease caused by a whitefly-transmitted geminivirus.

**Keywords:** Electronmicroscopy, cytopathology, *Jatropha curcas*

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