

RESEARCH ARTICLE

Studies on viral diseases of bitter gourd (*Momordica charantia* L.) with reference to their eco-friendly management in Eastern U.P.

■ Ajay Kumar Pandey, Drinkal Yadav, Vipin Kumar and Ravindra Kumar

SUMMARY

In the northern regions of India, throughout the warm season and the rainy season, one of the most significant cucurbitaceous vegetable crops that is cultivated is the bitter gourd, which is scientifically known as (*Momordica charantia* L.). It is cultivated all over the world, both in tropical and subtropical regions, and possesses a large genetic variety. However, “the crop is affected by a number of diseases, including anthracnose, powdery mildew, downy mildew, *Cercospora* leaf spot, *Alternaria* leaf blight, and anthracnose leaf spot. Of these diseases, the leaf spot caused by *Alternaria* spp. is found to cause serious losses throughout Uttar Pradesh and other states”. Other diseases include powdery mildew, downy mildew, and powdery mildew. The survey was carried out during the vegetative stage and the fruiting stage of the crop during both the kharif and the rabi seasons by visually inspecting the plants in each field in a “W” pattern. These crop growth stages occur throughout a single cropping season (crossing the rows). According to the findings of the study, the occurrence “of whiteflies and viral illnesses in bitter gourd was seen in all of the investigated areas with varying levels of damage and vulnerability. This was the case in all of the locations”.

Key Words : Viral, Diseases, *Momordica*, *Charantia*

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