

عنوان مقاله:

Occurrence of Cucurbit aphid-borne yellows virus infection on melons in Sistan region

محل انتشار:

همایش بین المللی پژوهش های کاربردی در کشاورزی (سال: 1394)

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خلاصه مقاله:

Melon and watermelon are most important cucurbit crops in Sistan region and viral diseases of cucurbit crops cause important economic losses in Sistan region. During summers of 2009, virus-like symptoms were noticed on cucurbit crops (watermelons and melons) grown in the Sistan region of Iran. The symptoms were widespread and included initial chlorotic lesions followed by yellowing of whole leaves and thickening of older leaves, suggesting the presence of Cucurbit aphid-borne yellows virus. A survey was performed to investigate a yellowing viral disease in the major cucurbit-growing areas of Sistan region. Leaf samples showing typical symptoms (yellowing, thickening) were collected from melon plants of several cucurbit-growing areas of Sistan region. All samples, were screened for the presence of CABYV by double-antibody sandwich enzyme-linked immunosorbent assay (DAS-ELISA). In order to confirm CABYV identification, total RNA extracts were obtained from samples that were positive using DAS-ELISA and reverse transcription-polymerase chain reactions (RT-PCR) were carried out. RT-PCR experiments yielded an expected 479-bp product similar to the fragment amplified with extracts from the reference isolate, RT-PCR. All samples were infected with Cucurbit aphid-borne yellows virus (CABYV). This is the first report of CABYV existence in Sistan region.

کلمات کلیدی:

Cucumis melo, Citrullus lanatus, Iran, Cucurbit aphid-borne yellows virus

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