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Detection of *Tomato Yellow Leaf Curl Virus* TYLCV in some vegetable crops in greenhouses and identify its strains in the Syrian Coast

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Abstract:Vegetable crops in greenhouses are susceptible to infection with large number of plant viruses belonging to Begomovirus especially *Tomato Yellow Leaf Curl Virus* which cause significant economic losses. The objective of this study to detect and identify TYLCV and its strains in the Syrian coast region.

The results showed the first report of the strains TYLCV-Mld and TYLCV-IL on tomato, pepper, cucumber and beans in Syria.

Phylogenetic tree for TYLCV-Mld strain showed very high similarity of some local samples with 95.6% nucleotide identities and 65% of bootstrap value. This indicated that the two local samples were infected with close strains of TYLCV-Mld and the Jordanian strain was the closest strain to the studied local strains. Also bootstrap value for local strain of TYLCV-IL was 65% with 95.4% nucleotide identities and the Israeli and Spain strains of TYLCV-IL were the closest strain to the studied local strains.

Keywords: Strains, Tomato Yellow leaf Curl Virus, Greenhouses, Syrian coast.

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