



First Article (Shared with another inside the specialization – Published in International Journal-
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Emergence and diversity of Squash Leaf Curl Virus infecting solanaceous vegetable crops in Egypt.

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Abstract

Begomoviruses have emerged recently as a serious problem in Mediterranean countries. In 2016 through 2018, high incidence of begomovirus-like diseases was observed on solanaceous vegetable crops in Egypt. The incidence of SLCV determined in five different Egyptian governorates using specific PCR. The virus found infecting tomato, pepper, eggplant, and tomatillo with high incidence (37.4%). Also, the virus detected in four weed species which are prevailing in Egyptian fields. Two SLCV isolates denoted as SLCV-Tom and SLCV-Pep, infecting tomato and pepper; respectively were biologically and molecularly characterized. SLCV-Tom and SLCV-Pep isolates were whitefly-transmitted to eleven plant species belonging to five different botanical families. Full genome sequences of both isolates were determined and deposited to the GenBank database. According to the best of our knowledge, this is the first report of an SLCV infecting new agriculturally important solanaceous hosts such as tomato, pepper, eggplant, and tomatillo in Egypt.

عميد الكلية

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