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Characterizing TYLCV in cucumber through the application of molecular techniques

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Cucumber is one of the most important vegetable crops in Kuwait, but unfortunately dramatic losses were recorded during the growing season. The majority of these losses are caused by viral infections. Mixed viral infections were reported in cucumber and the main one which was *Tomato yellow leaf curl virus* (TYLCV). Molecular study was carried on to certify and diagnose the viral infections on cucumber and the study started with characterizing TYLCV. During the study, 50 samples of cucumber leaves were collected, and the symptoms resulting from viral diseases were recorded and documented. DNA extraction and polymerase chain reaction (PCR) tests were performed on the collected samples. PCR tests revealed that 40 out of the 50 samples were positive for the presence of TYLCV. TYLCV was characterized and reported to be infecting cucumber crops which was only reported in tomato crops, which revealed the second report of TYLCV on cucumber in the world.

Biography

Hanadi K Al-Hashash completed her Graduation at Kuwait University. She completed her BSc in Microbiology (major) and Biochemistry (minor), and then joined Kuwait Institute for Scientific Research (KISR) since May, 2001 till present. Since then, she worked as a task Leader in several project within Biotechnology program. She leads one general research activity. She has an excellent experience in Microbial isolation and identification using conventional as well as molecular techniques, DNA, RNA, and protein extraction, using restriction enzymes, and using ELISA.

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