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**Biography**

Ebtesam Al-Ali has obtained her BSC in 1993, from Kuwait University and worked for Kuwait University as Research Assistant, then joined KISR and led eight projects. She has published more than 30 papers in reputed journals and international conferences. Her field of experiences is in plant virus detection, primer design, cloning and sequencing, ELISA, DNA extraction, PCR amplification, RCA rolling circle amplification, TYLCV detection on tomatoes, also trained twice in the University of Wisconsin Madison under the supervision of Prof. Amy Charkowski as well as University of Washington state under supervision of Prof. Hanu Pappu.

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**DETECTION OF TYLCV ON CUCUMBER CROPS IN KUWAITI FARM**

High scores of vegetable crop losses were recorded in Kuwait agricultural farms, viral diseases were the main causal agent of these economic losses in many crops, mainly in tomato and recently recorded in cucumber. Tomato yellow leaf curl virus (TYLCV) was reported as a major pest of tomato and cucumber but it was not characterized at the molecular level. The whitefly was the main transmitter of TYLCV. Common symptoms on cucumber plants infected with TYLCV were: Leaf and fruit deformation, mosaicing, yellowing, upward leaf cupping, and stunting. Two hundred samples of cucumber leaves were collected, and the symptoms resulting from viral diseases were recorded and documented. DNA was extracted from 300 infected cucumber leaf samples, and PCR detection was performed on 150 samples using two different primer pairs (TY1 and TY2 and TYC1R and TYC1F). PCR tests revealed that 80 samples out of 150 tested samples were positive. Best results were performed by TY1 and TY2 primer pair. Positive samples were stored for further analysis.



Note: