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Molecular studies on tomato leaf curl virus (TLCV) in Bara, Sudan

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Tomato samples with typical symptoms of tomato yellow leaf curl disease (TYLCD) were collected open field and green house from Bara town (North Kordofan State) in Sudan. PCR was used to identify the pathogen using degenerate primers of *Gemini viruses* (AVcore and ACcore). To determine exactly the virus strain, multiplex PCR was used with sets of specific primers for tomato yellow leaf curl virus Almeria strain (TYLCV-Alm), tomato yellow leaf curl virus Israel strain (TYLCV-IL), tomato yellow leaf curl mild strain (TYLCV-mld) and tomato yellow leaf curl virus Sardinia strain (TYLCSV). All samples were positive with degenerate primers and negative with all other specific primers. PCR products were cloned and sequenced and the results showed that all isolates tested were found to be related to tomato leaf curl Sudan virus. The highest nucleotide identities (>95%) were obtained with members of the species from Sudan and Yemen.

Biography

Sana Khalifa Mukhtar Badawi, an Associate Professor completed her PhD in field of Plant Pathology (Virology) from University of Khartoum, Sudan. She participated in workshops and conferences at USA, France, Italy, Jordan, Syria, Egypt, Lebanon, Morocco and Emirates.

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