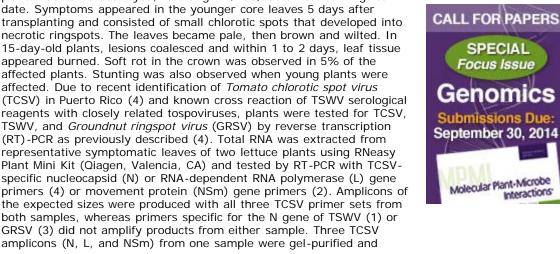
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cloned (pGEM-T, Promega, Madison, WI). Six clones of each amplicon were sequenced in both directions and consensus sequences were deposited in GenBank (KF819827 to 29). All three genes showed greater than 96% nucleotide identity with all TCSV isolates in GenBank, including 99 to 100% nucleotide identity with previously characterized TCSV isolates from tomato, pepper, and jimsonweed in Puerto Rico (4). Consistent with the identification of TCSV, the known TCSV vector Frankliniella schultzei was identified in the lettuce with an adult population of 10 to 21 thrips per plant. Symptomatic lettuce leaves were used to mechanically inoculate 10-day-old lettuce and 56-day-old tobacco (Nicotiana tabacum) plants. Symptoms reminiscent of the original lettuce developed, and the presence of TCSV was confirmed by RT-PCR as described above. This is the first report of TCSV infection of lettuce in Puerto Rico and demonstrates that TCSV can be a limiting factor to lettuce production here and elsewhere in the Caribbean.

References: (1) S. Adkins and E. N. Rosskopf. Plant Dis. 86:1310, 2002. (2) M. S. Silva et al. Arch. Virol. 146:1267, 2001. (3) C. G. Webster et al. Virology 413:216, 2011. (4) C. G. Webster et al. Plant Health Progress doi: 10.1094/PHP-2013-0812-01-BR, 2013.



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