

RFLP and phylogenetic analyses confirmed the affiliation of the phytoplasma strains identified in grapevine and bindweed plants in Georgia to the species 'Ca. P. solani' (subgroup 16SrXII-A) and 'Ca. P. convolvuli' (subgroup 16SrXII-H). Representative 16S rDNA nucleotide sequences were deposited in NCBI GenBank website with accession nos. KF996535 and KF996536 ('Ca. P. solani' from grapevine and bindweed, respectively), and KF996537 ('Ca. P. convolvuli'). Future studies will focus on investigating the spread and impact of 'Ca. P. solani'-associated bois noir (BN) in Georgia. In particular, the identification of 'Ca. P. solani' in bindweeds suggested the presence of the insect Hyalesthes obsoletus, a polyphagous cixiidae responsible for BN phytoplasma transmission in vineyards in Europe. Accurate surveys and molecular analyses will be performed for identifying the insect vector(s) of the BN associated phytoplasma strains in Georgia. Additional studies will be performed to study the spread and impact of 'Ca. P. convolvuli,' identified only in Italy, Germany, Serbia, and Bosnia and Herzegovina (2), throughout the Caucasian countries.

*References*: (1) I.-M. Lee et al. Int. J. Syst. Bacteriol. 48:1153, 1998. (2) M. Martini et al. Int. J. Syst. Evol. Microbiol. 62:2910, 2013. (3) F. Quaglino et al. Int. J. Syst. Evol. Microbiol. 63:2879, 2013.

Journals Home APS Home IS-MPMI Home Contact Us Privacy Copyright The American Phytopathological Society