



Supplementary Figure 1. Phytoplasma detection in ten leafhoppers by semi-nested polymerase chain reaction (PCR) amplification of 16S rRNA gene with universal primer pair P1/16S-SR (Direct PCR), followed by amplification with primers P1A/16S-SR (Semi-nested PCR). Ten samples include LH078-1, LH82-1, LH102-1, LH133-1, LH139-1, LH143-1, LH078-12, LH082-2, LH098-1, and LH143-5 M: Marker (1Kb DNA ladder); water was used as negative control.

Supplementary Table 1. Detection of phytoplasmas in 76 leafhopper samples by semi-nested polymerase chain reaction (PCR), including 56 quantitative PCR (qPCR) screened and 20 untested leafhopper samples.

	sample code/country	sample code/country	sample code/country	sample code/country	sample code/country	sample code/country	sample code/country
56 (1-56) qPCR screened samples [24]	LH068-1 USA	LH086-1 Mongolia	LH100-1 Kyrgyzstan	LH116-1 Australia	LH134-1 Australia	51-56	LH078-1* South Africa
	LH070-1 USA	LH087-1 Mongolia	LH103-1 Kyrgyzstan	LH117-1 Australia	LH136-1 Australia		LH082-1* South Africa
	LH071-1 USA	LH088-1 Mongolia	LH104-1 China	LH118-1 Australia	LH137-1 Australia		LH0102-1* Kyrgyzstan
	LH072-1 USA	LH089-1 Mongolia	LH108-1 Thailand	LH120-1 Australia	LH138-1 Australia		LH0133-1* Australia
	LH073-1 USA	LH091-1 Mongolia	LH109-1 Thailand	LH121-1 Australia	LH140-1 China		LH0139-1* Australia
	LH076-1 South Africa	LH092-1 Republic of Congo	LH110-1 Taiwan	LH126-1 Australia	LH141-1 China	LH0143-1* China	
	LH079-1 South Africa	LH093-1 Republic of Congo	LH111-1 Thailand	LH128-1 Australia	LH147-1 Zambia		
	LH080-1 South Africa	LH095-1 Republic of Congo	LH112-1 Australia	LH130-1 Australia	LH148-1 Zambia		
	LH083-1 South Africa	LH096-1 Kyrgyzstan	LH113-1 Thailand	LH131-1 Australia	LH149-1 Zambia		
	LH085-1 South Africa	LH098-1 Kyrgyzstan	LH115-1 Taiwan	LH132-1 Australia	LH219-1 Switzerland		
20 (1-20) unexamined samples	LH102-2 Kyrgyzstan	LH078-11 South Africa					
	LH078-2 South Africa	LH078-12 South Africa					
	LH078-3 South Africa	LH078-13 South Africa					
	LH078-4 South Africa	LH082-2 South Africa					
	LH078-5 South Africa	LH082-3 South Africa					
	LH078-6 South Africa	LH143-2 China					
	LH078-7 South Africa	LH143-3 China					
	LH078-8 South Africa	LH143-4 China					
	LH078-9 South Africa	LH143-5 China					
	LH078-10 South Africa	LH133-2 Australia					

* represents the leafhopper samples that were detected phytoplasma-positive by qPCR [24]. Bolded leafhopper samples (including *) were detected phytoplasma-positive by semi-nested PCR.

[24] Trivellone, V.; Wei, W.; Filippin, L.; Dietrich, C. H. Screening potential insect vectors in a museum biorepository reveals undiscovered diversity of plant pathogens in natural areas. *Authorea*. 2021, DOI: 10.22541/au.161372577.77393543/v1