

Table S1. Comparison and analysis of the characteristics of phyllosphere microbial community association network of different samples.

Network characteristics	Bacteria		
	Ya	Yb	Yc
Average degree	64.189	98.898	74.836
Average weighted degree	54.898	40.383	22.706
Network diameter	8	5	5
Graph density	0.087	0.096	0.071
Modularity	0.991	1.444	1.86
Network clustering coefficient	0.753	0.661	0.643
Average path length	2.948	2.877	3.076
Positive correlation	78.24%	66.3%	61.83%
Negative correlation	21.76%	33.7%	38.17%
Network characteristics	Fungi		
	Ya	Yb	Yc
Average degree	28.273	47.672	37.804
Average weighted degree	30.434	50.157	35.468
Network diameter	8	6	6
Graph density	0.077	0.069	0.07
Modularity	0.947	0.996	0.841
Network clustering coefficient	0.791	0.776	0.753
Average path length	3.018	2.92	3.035
Positive correlation	83.92%	80.59%	75.63%
Negative correlation	16.08%	19.41%	24.37%

Ya: healthy *P. tabuliformis* trees; Yb: diseased *P. tabuliformis* trees infected by *B. xylophilus* at early stage; Yc: diseased *P. tabuliformis* trees at the last stage.