

FIGURE 1

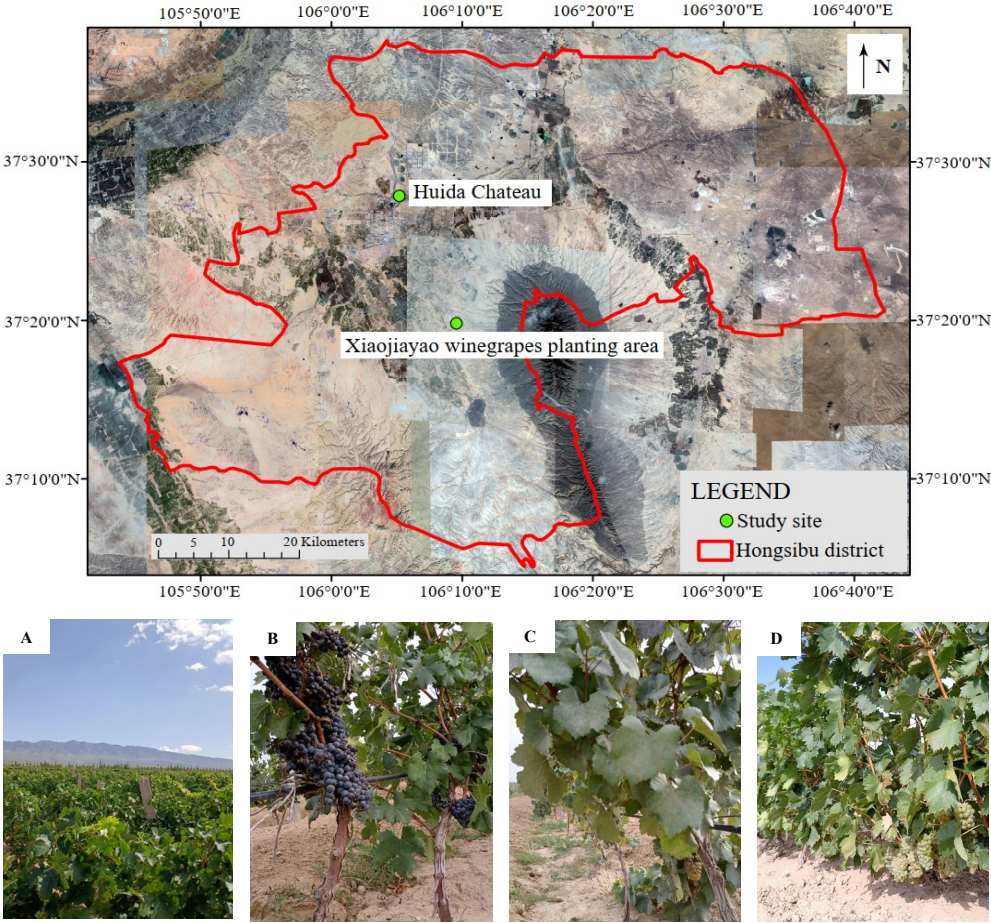


FIGURE 2

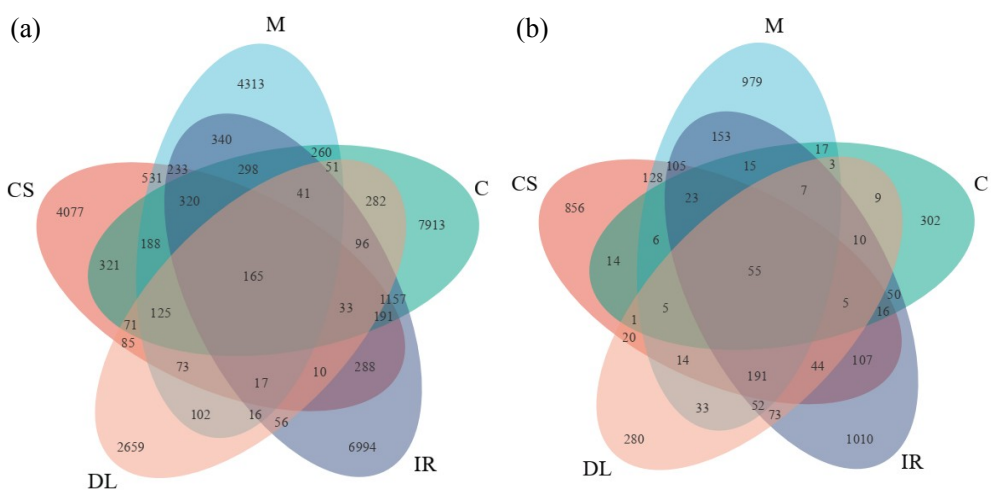


FIGURE 3

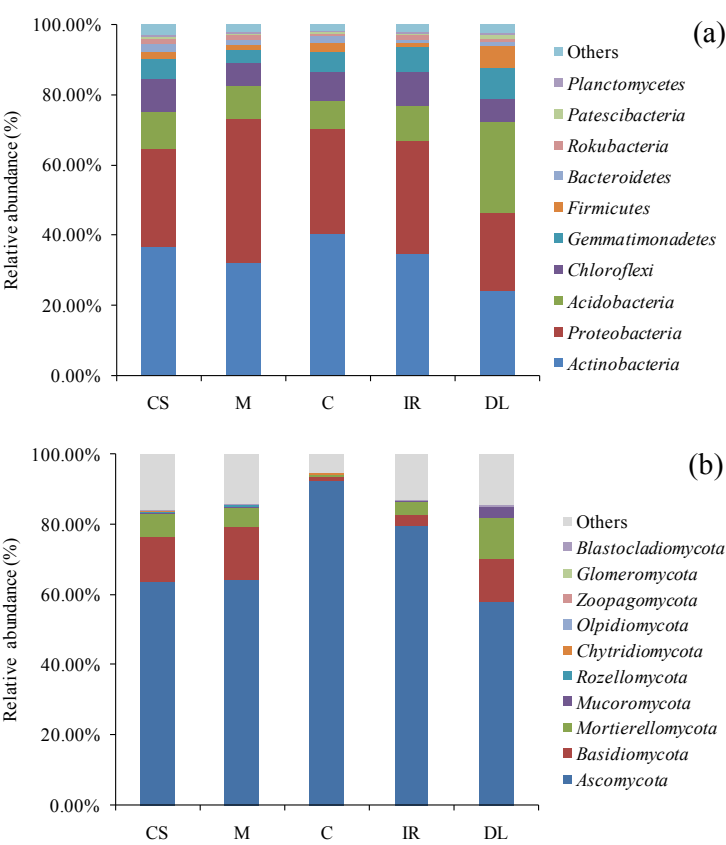


FIGURE 4

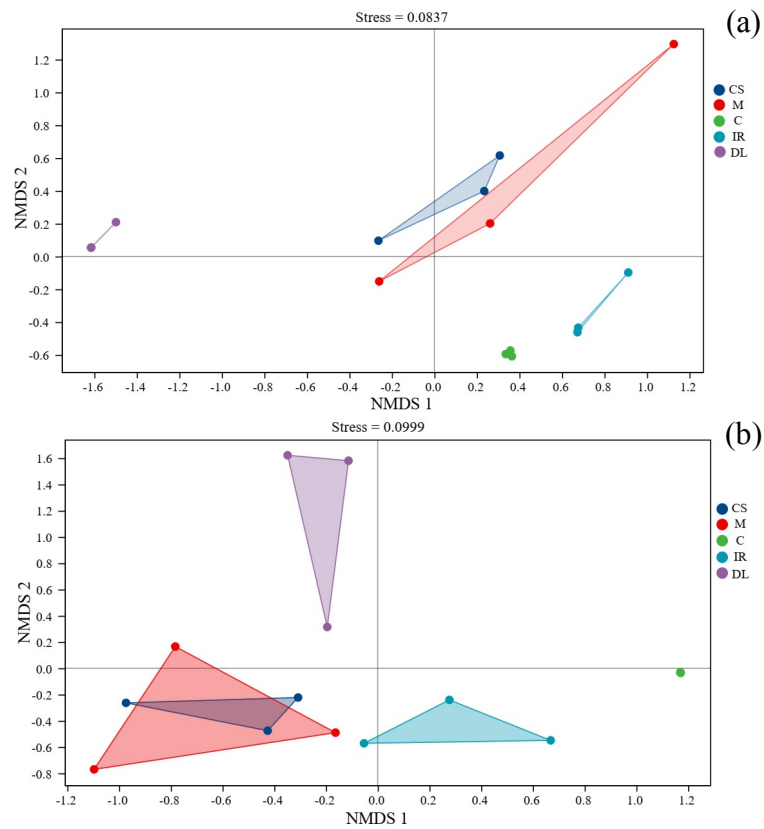


FIGURE 5

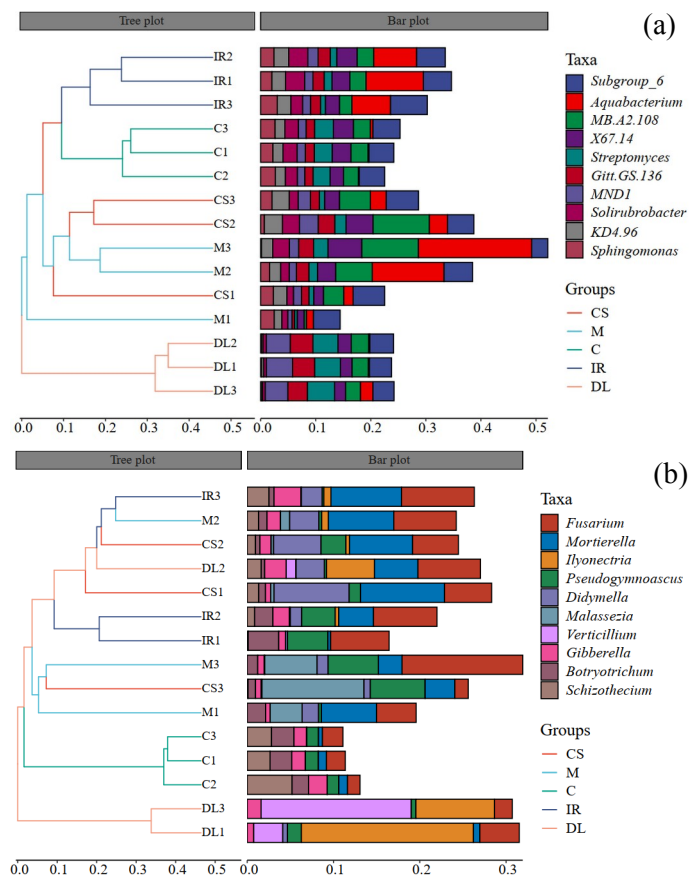
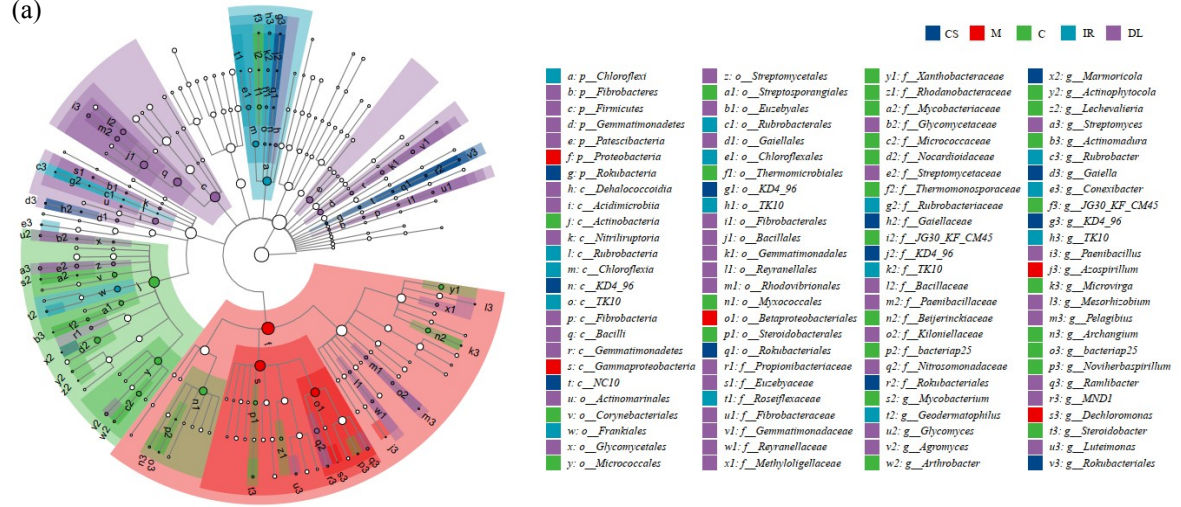




FIGURE 6

(a)



(b)

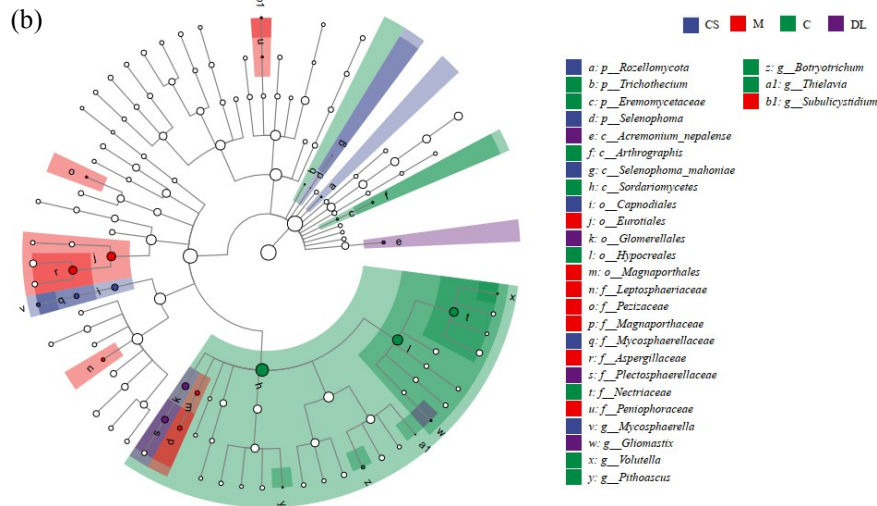


FIGURE 7

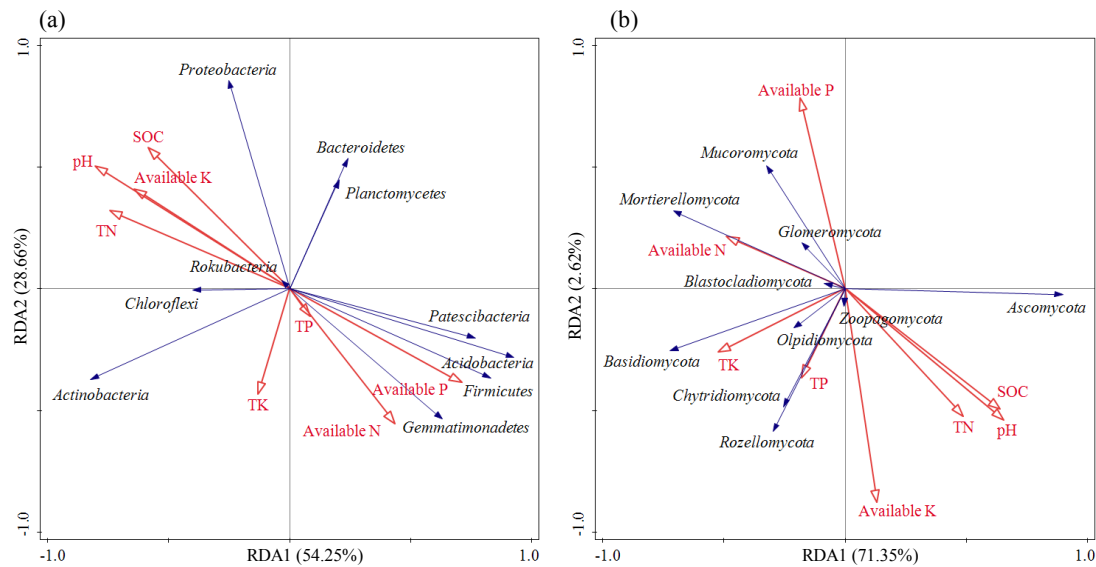


TABLE 1

Soil properties	CS	M	C	IR	DL	<i>F</i> value	<i>P</i> value
Bulk density (g cm <sup>-3</sup> )	1.10±0.03 b	1.03±0.01 c	1.07±0.03 bc	1.11±0.05 b	1.33±0.03 a	37.6 0	< 0.001
TN (g kg <sup>-1</sup> )	0.37±0.06 a	0.36±0.07 a	0.40±0.08 a	0.37±0.09 a	0.16±0.06 b	5.23	0.015
Available nitrogen (mg kg <sup>-1</sup> )	37.63±1.3 7a	25.17±1.5 9c	29.58±1.1 9b	21.83±2.1 2d	37.46±2.0 5a	52.6 8	< 0.001
TP (g kg <sup>-1</sup> )	0.35±0.04 a	0.28±0.07 a	0.29±0.06 a	0.30±0.02 a	0.31±0.06 a	0.64	0.65
Available phosphorus (mg kg <sup>-1</sup> )	3.48±0.13 e	4.25±0.25 d	4.72±0.21 c	5.61±0.35 b	7.86±0.18 a	150. 92	< 0.001
TK (g kg <sup>-1</sup> )	14.35±0.9 0a	13.34±1.4 6ab	12.43±0.4 0b	11.86±0.6 7b	13.16±0.3 5ab	3.69	0.043
Available potassium (mg kg <sup>-1</sup> )	89.45±13. 38a	87.65±5.3 2a	84.70±0.9 8a	70.21±1.3 5b	61.93±0.9 5c	47.7 8	< 0.001
SOC (g kg <sup>-1</sup> )	1.35±0.35 c	2.79±0.02 a	2.84±0.05 a	1.91±0.06 b	0.99±0.10 d	75.6 5	< 0.001
pH	8.32±0.16 b	8.64±0.08 a	8.65±0.16 a	8.85±0.13 a	7.14±0.11 c	86.9 3	< 0.001

TABLE 2

Micr	Index	CS	M	C	IR	DL	<i>F</i> value	<i>P</i> value
obe							e	e

Bacteria	Chao 1	2910.00±17 0.03c	2789.92±71 5.03c	5612.98±16 8.92a	4492.68±69 8.58b	1950.83±12 4.58c	30.3 8	< 0.01
	Observed species	2823.10±19 7.61c	2707.00±63 3.79c	5314.57±15 6.81a	4371.53±58 3.43b	1844.83±12 3.52d	35.8 1	< 0.01
	Shannon	10.31±0.65 abc	9.29±0.54b c	11.00±0.05 a	10.60±0.28 ab	8.34±0.01c	21.9 9	< 0.01
	Simpson	1.00±0.001 a	0.98±0.01b	1.00±0.000 5a	0.99±0.004 ab	0.99±0.000 4b	7.67	< 0.01
Fungi	Chao 1	642.01±174 .07a	649.02±661 .88a	273.24±31. 90a	836.27±525 .10a	286.28±387 .69a	1.03	0.44
	Observed species	639.57±173 .05a	647.70±661 .49a	269.33±30. 36a	830.63±520 .23a	285.23±386 .31a	1.03	0.44
	Shannon	7.28±1.00a	7.49±1.07a	4.09±0.20b	7.17±1.41a	3.97±2.45b	4.78	0.02
	Simpson	0.96±0.05a	0.99±0.01a	0.80±0.02b	0.97±0.03a	0.76±0.17b	5.48	0.01

**TABLE 3**

Microbe	Source of variation	df	Sums of square	Mean of square	Pseudo- <i>F</i>	R <sup>2</sup>	<i>p</i>
Bacteria	Land-use	4	3.02	0.75	4.64	0.65	0.001
	Residuals	10	1.63	0.16		0.35	
	Total	14	4.65			1.00	
Fungi	Land-use	4	2.81	0.70	3.40	0.58	0.001
	Residuals	10	2.06	0.21		0.42	
	Total	14	4.87			1.00	

**TABLE S**

Microbe		TN	NO <sub>3</sub> <sup>-</sup> - N	NH <sub>4</sub> <sup>+</sup> - N	TP	Available P	TK	Available K	SOC	pH
Bacteria	Chao 1	0.558*	0.970*	0.812*	-0.155	-0.006	0.434	0.313	0.594*	0.670**
	Observed species	0.562*	0.970*	0.823*	-0.167	0.001	0.441	0.309	0.598*	0.692**
	Shannon	0.627*	0.823*	0.701*	-0.034	0.399	0.258	0.432	0.465	0.752**
	Simpson	0.099	0.460	0.305	-0.021	0.383	0.037	0.046	0.214	0.060
	Pielou's evenness	0.552*	0.581*	0.492	0.061	0.577*	0.125	0.461	0.291	0.632*
Fungi	Chao 1	0.229	0.045	-0.011	-0.175	0.099	0.168	-0.17	0.007	0.303
	Observed species	0.227	0.042	-0.015	-0.174	0.099	0.171	-0.172	0.006	0.302
	Shannon	0.405	-0.084	-0.097	0.12	0.309	0.18	0.168	0.1	0.468



Simpson	0.47 8	-0.006	-0.005	0.17 4	0.294	0.02 6	0.29	0.18 7	0.559 *
Pielou's evenness	0.41 4	-0.213	-0.166	0.18 3	0.298	0.09 3	0.297	0.14 8	0.463

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