附錄 1、各樣區蜘蛛類科級組成及數量。

Appendix 1. Abundance of families in each sampling site.

	Organic tea plantation			Conventional tea plantation		
family	O1	O2	O2.5	C0.8	C1.4	1.7C
Lycosidae	93	178	86	108	48	49
Salticidae	69	46	65	45	41	55
Araneidae	62	30	47	44	41	42
Theridiidae	17	14	7	12	14	21
Linyphiidae	18	20	2	8	10	9
Tetragnathidae	4		2	11	17	6
Gnaphosidae	15		1		4	5
Clubionidae	4		6	2	1	3
Oxyopidae	4	6	5		1	
Cheiracanthiidae	4		9		1	1
Nephilidae			1	5	6	
Thomisidae				3		6
Oonopidae	4	1	1			1
Hahniidae	3	3				
Corinnidae						2
Miturgidae				2		
Mysmenidae		2				
Agelenidae					1	
Anapidae	1					
Liocranidae						1
Uloboridae			1			
Pholcidae					1	

附錄 2、各樣區蜘蛛類物種組成及數量(僅計算成熟個體)。

Appendix 2. Abundance of dominant species in each sampling site (excluding nonadult individuals).

	Organic tea plantation			Conventional tea plantation		
Species	O1	O2	O2.5	C0.8	C1.4	C1.7
Venonia spirocysta	29	128	47	59	16	31
Pardosa laura	22	13		2	3	1
Phintella debilis	4	8	2	9	14	3
Ptocasius strupifer	12	4	8			13
Ummeliata feminea	12	6		4		2
Cyrtophora exanthematica	5		2	4	1	3
Chrysso spiniventris	1	6		3	2	2
Mendosa sp.	1	2	4	3	2	1
Phintella versicolor	1	2	2		3	4
Trochosa aquatica		1	1	8		
others	39	21	25	8	25	25

附錄 3、本研究魚池鄉茶園樣區蜘蛛名錄(†表示待描述之新種；*表示新紀錄種；#表示該科僅有若蛛紀錄)。

Appendix 3. List of spider species in tea plantations in Yuchi Township, Nantou († indicate new species; * indicate newly recorded species; # indicate that no adult individual was recorded of the family)

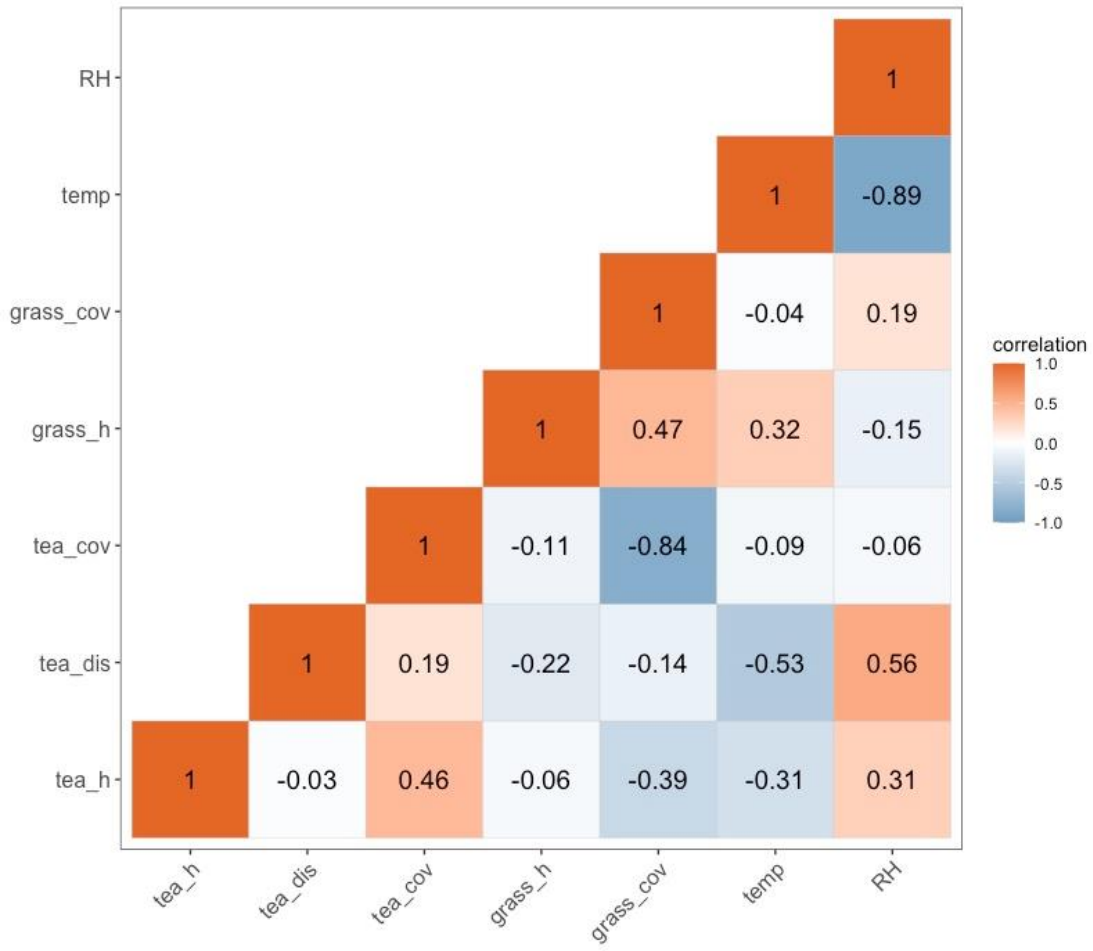
Family	Species
Agelenidae	#Juvenile
Anapidae	Anapidae
Araneidae	*Araneus viridiventris*
	Argiope aemula
	Argiope sp.
	Cyclosa mulmeinensis
	Cyclosa sp
	Cyrtophora exanthematica
	Cyrtophora moluccensis
	Eriovixia excelsa
	Eriovixia pseudocentrodes
	Gasteracantha kuhli
	Gea spinipes
	Neoscona nautica
	Neoscona punctigera
	Parawixia dehaani
	Poltys illepidus
	Thelacantha brevispina
Clubionidae	*Clubiona* sp.
Corinnidae	***Corinnomma severum ****
Cheiracanthiidae	*Cheiracanthium* sp
	Cheiracanthium taiwanicum
Gnaphosidae	Gnaphosidae 1
	Gnaphosidae 2
	Zelotes asiaticus
Hahniidae	*Neoantistea quelpartensis*
Linyphiidae	*Erigone prominens*
	Hylyphantes graminicola
	Ummeliata feminea *
	Linyphiidae1
	Linyphiidae2
	Linyphiidae3

	Linyphiidae4
	Linyphiidae5
	Linyphiidae6
Liocranidae	*Oedignatha* sp
Lycosidae	*Lycosa coelestis*
	Pardosa insulana [+]
	Pardosa laura
	Pardosa sp.
	Trochosa aquatica
	Venonia spirocysta
Miturgidae	*Prochora praticola*
Mysmenidae	*Mysmenella* sp.
Nephilidae	*Nephila clavata*
	Nephila pilipes
Oonopidae	*Ischnothyreus* sp.
	Oonopidae 1
Oxyopidae	***Oxyopes hasta*** [+]
	Oxyopes macilentus
Pholcidae	[#]Juvenile
Salticidae	***Bristowia heterospinosa****
	Burmattus pococki*
	Mendoza sp.
	Myrmarachne formosicola
	Myrmarachne sp. 1
	Myrmarachne sp. 2
	Phintella debilis
	Phintella linea
	Phintelloides versicolor
	Ptocasius strupifer
	Rhene atrata
	Rhene sp.
	Salticidae 1
	Salticidae 2
	Salticidae 3
	Salticidae 4
	Siler cupreus
	Thiania suboppressa
Tetragnathidae	*Leucauge blanda*

Theridiidae	*Argyrodes fissifrons*
	Argyrodes labiatus
	Argyrodes sp.
	Chikunia nigra
	Chrysso spiniventris
	Parasteatoda transipora *
	Platnickina maculata *
	Steatoda cingulata
	Theridiidae 1
	Theridion sp.
Thomisidae	#Juvenile
Uloboridae	*Uloborus penicillatoides*

附錄 4、各項環境因子間之相關性矩陣。tea_h：茶樹平均高度；tea_dis：茶樹平均間距；tea_cov：茶樹覆蓋度；grass_h：草生植被平均高度；grass_cov：草生植被覆蓋度；temp：溫度；RH：相對濕度。

Appendix 4. Pairwise correlation of environmental variables. tea_h: mean height of tea tree; tea_dis: mean distance of tea tree; tea_cov: coverage of tea tree; grass_h: mean height of grass; grass_cov: coverage of grass; temp: temperature; RH: relative humidity.



附錄 5、BioEnv 分析群聚結構及各環境因子之距離矩陣之相關性結果相關性。斯皮爾曼相關係數最高的組合以粗體表示。tea_h：茶樹平均高度；tea_dis：茶樹平均間距；tea_cov：茶樹覆蓋度；grass_h：草生植被平均高度；grass_cov：草生植被覆蓋度；temp：溫度；RH：相對濕度。

Appendix 5. Results of the BioEnv analysis for the relationship between the dissimilarity of the spider community and the dissimilarity of environmental variables in tea plantations of Yuchi Township. Spearman correlation for the best model is shown in bold. tea_h: mean height of tea tree; tea_dis: mean distance of tea tree; tea_cov: coverage of tea tree; grass_h: mean height of grass; grass_cov: coverage of grass; temp: temperature; RH: relative humidity.

Rank	Environmental variables	correlation
1	**tea_h, grass_h, temp, RH**	**0.4894**
2	tea_h, tea_cov, grass_h, temp, RH	0.4734
3	tea_h, grass_h, temp	0.4725
4	grass_h, temp	0.4210
5	tea_h, tea_cov, grass_h, grass_cov, temp, RH	0.4173
6	temp	0.3794
7	tea_h, tea_dis, tea_cov, grass_h, grass_cov, temp, RH	0.3175