

Supplementary Information of
**Targeted Host Sampling Strategy Reveals Hidden Diversity of
Gall-Inducing Insects on Asteraceae**

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Appendix S1. The detail information of sampling sites in this study

Site ID	Location	GPS Coordinate (WGS84)		Elevation (m)
		Latitude	Longitude	
1	Keelung City: Zhongzheng District: Wang-yo Valley	25.147088	121.795818	35
2	New Taipei City: Ruifang District: Elephant Trunk Rock Scenic Area	25.133854	121.823294	0
3	Taipei City: Xinyi District: Songshan Cultural and Creative Park	25.043506	121.560951	17
4	Taipei City: Zhongzheng District: Taipei Botanical Garden	25.031306	121.509250	17
5	Taipei City: Da'an District: National Taiwan University	25.020981	121.537381	16
6	Hsinchu County: Jianshi Township: Xinle Village	24.742336	121.269164	759
7	Miaoli County: Tongxiao Township: Tongxiao NO.24 Cemetery	24.545399	120.707027	78
8	Miaoli County: Tai'an Township: Simaxian Forest Road	24.406162	120.958493	1049
9	Taichung City: Qingshui District: Wucuo Village	24.289188	120.597491	130
10	Taichung City: Shalu District: Luliao Village	24.248389	120.569667	35
11	Hualien County: Xiulin Township: Ci'en	24.185611	121.384639	2059
12	Hualien County: Xiulin Township: Bilu	24.178199	121.374828	2494
13	Taichung City: Longjing District: Longjing NO.1 Cemetery	24.171710	120.549423	103
14	Hualien County: Xiulin Township: Hehuan Mountain East Peak Trails	24.139781	121.286891	3091
15	Nantou County: Ren'ai Township: Wulin	24.136484	121.278205	3263
16	Nantou County: Ren'ai Township:	24.122835	121.271945	3085

Kunyang

17	Taichung City: South District : National Chung Hsing University	24.121972	120.674712	58
18	Nantou County: Ren'ai Township: Yuanfeng	24.112963	121.214660	2574
19	Nantou County: Ren'ai Township: Datong Village	24.112963	121.214660	2574
20	Nantou County: Ren'ai Township: Huisun Experimental Forest Station	24.092452	121.032753	713
21	Taichung City: Wufeng District: Jiuzheng Village	24.019222	120.693441	83
22	Nantou County: Zhushan Township: Tianzi Village	23.698778	120.690186	491
23	Nantou County: Lugu Township: Xitou Forest Amusement Park	23.672600	120.798038	1177
24	Chiayi County: Alishan Township: Laiji Village	23.523363	120.748548	995
25	Nantou County: Xinyi Township: Tatajia Saddle	23.507942	120.892087	2522
26	Chiayi County: Dongshi Township: Aogu Wetland	23.504093	120.202682	14
27	Chiayi County: Alishan Township: Alishan National Forest Recreation Area	23.500126	120.801593	2289
28	Chiayi City: East District: Chiayi Botanical Garden	23.484138	120.470822	77
29	Nantou County: Xinyi Township: Lulin Mountain	23.475132	120.879182	2555
30	Chiayi County: Alishan Township: Jade Mountain Main Peak Trails	23.466380	120.923330	2715
31	Chiayi County: Fanlu Township: Dahu Village	23.462555	120.608173	649
32	Pingtung County: Wandan Township: Siwei Village	22.605896	120.492942	17

33	Pingtung County: Chaozhou Township: Jiukuai Village	22.522228	120.548870	17
34	Pingtung County: Donggang Township: Datan Wetland Park	22.454242	120.487869	6
35	Pingtung County: Chunri Township: Dahan Forest Road	22.410960	120.737052	1260
36	Pingtung County: Hengchun Township: Fongchueisha	21.946987	120.839061	64

Appendix S2. Numbers of perfect fits in the validation analysis

Region	Index	Numbers ^a
Nearctic	Degree	0
Oriental	Degree	1745
Palaeartic	Degree	0
Sino-Japanese	Degree	472
Nearctic	partner.diversity	0
Oriental	partner.diversity	1691
Palaeartic	partner.diversity	0
Sino-Japanese	partner.diversity	493
Nearctic	species.specificity.index	5001
Oriental	species.specificity.index	1702
Palaeartic	species.specificity.index	5001
Sino-Japanese	species.specificity.index	477

^a The maximum number is 5001 in this column, including 5000 times of bootstrapping plus the original fit.