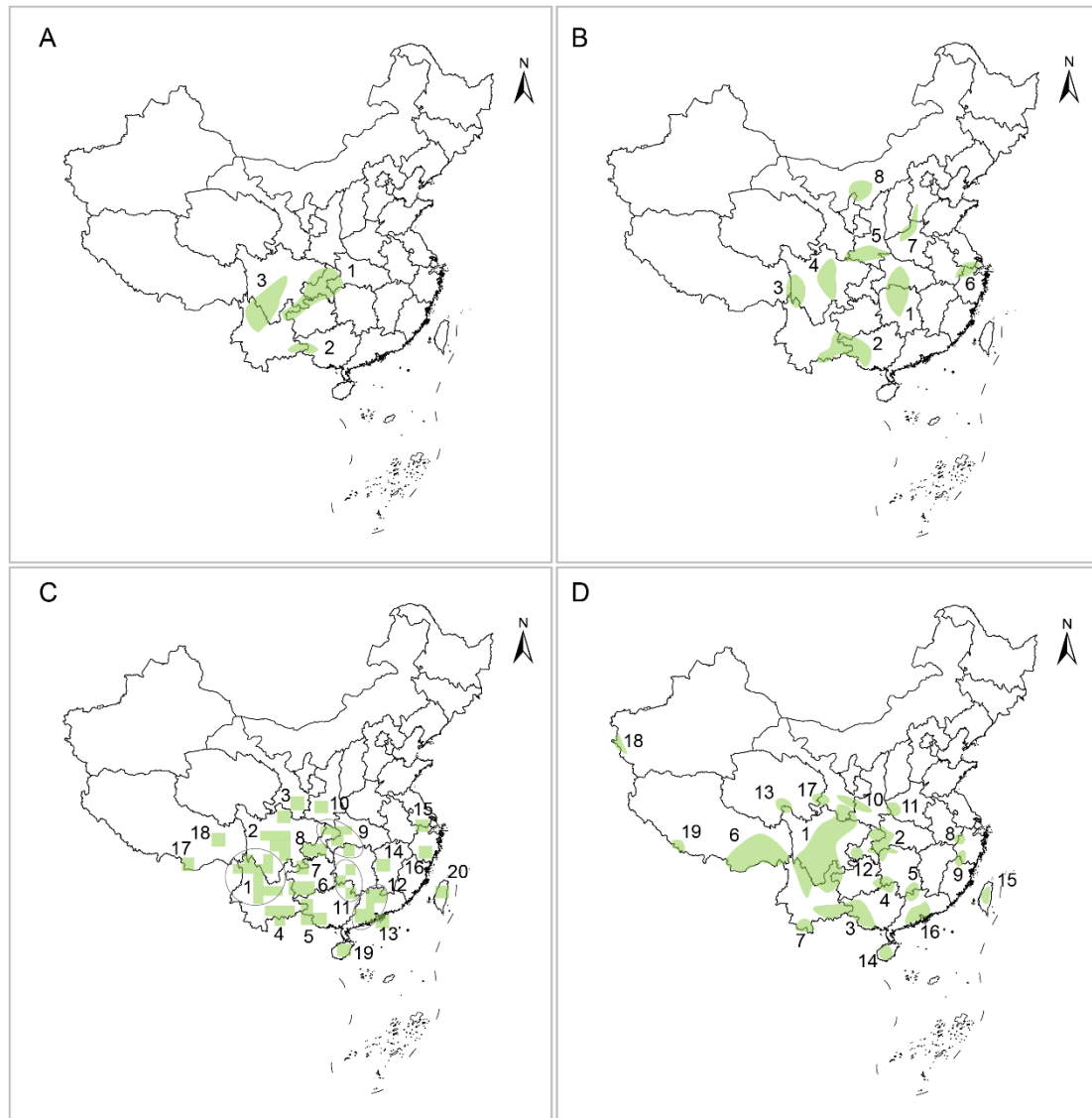


# **Spatial phylogenetics of the Chinese angiosperm flora provides insights into endemism and conservation**

Xiao-Xia Zhang <sup>1†</sup>, Jian-Fei Ye <sup>1,2†</sup>, Shawn W. Laffan<sup>3</sup>, Brent D. Mishler<sup>4</sup>, Andrew H.  
Thornhill<sup>4,5,6</sup>, Li-Min Lu<sup>1</sup>, Ling-Feng Mao<sup>7</sup>, Bing Liu<sup>1,8</sup>, You-Hua Chen<sup>9</sup>, An-Ming Lu<sup>1</sup>,  
Joseph T. Miller<sup>6,10★</sup>, Zhi-Duan Chen<sup>1,8★</sup>

## **SUPPORTING INFORMATION**



**Figure S1.** Chinese seed plant centers of endemism identified in different studies

(A) Three centers of endemism were identified by Ying et al. (1993). (B) Eight centers of endemism were identified by Wang and Zhang (1994a). (C) Twenty centers of endemism were identified by López-Pujol et al. (2011a). (D) Nineteen centers of endemism were identified by Huang et al. (2016a). All maps were modified from references. All center names correspond to those in Table S1.

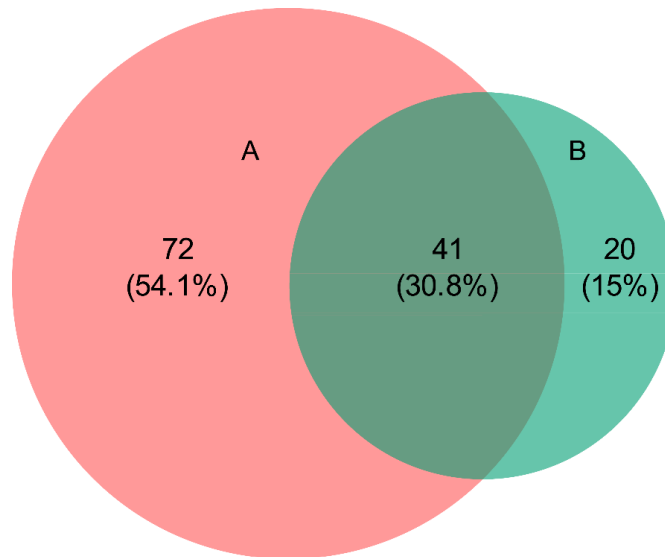
**Table S1.** Chinese seed plant centers of endemism identified in different studies

| Code Number | Ying et al., 1993<br>Figure S1 A | Wang and Zhang, 1994a<br>Figure S1 B                              | López-Pujol et al., 2011a<br>Figure S1 C | Huang et al., 2016a<br>Figure S1 D                                        |
|-------------|----------------------------------|-------------------------------------------------------------------|------------------------------------------|---------------------------------------------------------------------------|
| 1           | East Sichuan–west Hubei          | The Three Gorges region                                           | Northwest Yunnan                         | Hengduanshan Mountains                                                    |
| 2           | Southeast Yunnan–west Guangxi    | Dian–Qian–Gui                                                     | West Sichuan                             | Mountainous areas of east Chongqing and west Hubei                        |
| 3           | West Sichuan–northwest Yunnan    | The southern part of Hengduanshan Mountains                       | Sichuan-Gansu                            | Mountainous areas of east Yunnan and west Guangxi                         |
| 4           |                                  | The middle part of Hengduanshan Mountains                         | Southeast Yunnan                         | Mountainous areas of north Guangxi, southeast Guizhou and southwest Hunan |
| 5           |                                  | Qinling Mountains                                                 | Southwest Guangxi                        | Mountainous areas of north Guangdong and south Hunan                      |
| 6           |                                  | Huangshan Mountains–Tianmushan Mountains                          | Southwest Guizhou                        | Mountainous areas of southeast Tibet                                      |
| 7           |                                  | Zhongtiaoshan Mountain–The southern part of Taihangshan Mountains | Northwest Guizhou                        | Xishuangbanna Region                                                      |
| 8           |                                  | Inner Mongolia                                                    | Chongqing                                | Mountainous areas of southeast Anhui and northwest Zhejiang               |

|    |                           |                                                                              |
|----|---------------------------|------------------------------------------------------------------------------|
| 9  | The Three Gorges region   | Mountainous areas of south Zhejiang, northwest Fujian, and southeast Jiangxi |
| 10 | Central Qinling Mountains | Qinling Mountains                                                            |
| 11 | Northeast Guangxi         | Mountainous area of west Henan                                               |
| 12 | West Guangdong            | southwest Chongqing                                                          |
| 13 | Hong Kong                 | Lancang River source                                                         |
| 14 | West Jiangxi              | Hainan Island                                                                |
| 15 | Tianmushan Mountains      | Taiwan Island                                                                |
| 16 | Southwest Zhejiang        | Mountainous areas of central and west Guangdong                              |
| 17 | Kanggardo Mountain        | West of Longzhong Plateau                                                    |
| 18 | Namjagbarwa Mountain      | Yarkant River in west Kunlunshan Mountains                                   |
| 19 | Hainan Island             | Nielamu region                                                               |
| 20 | Taiwan Island             |                                                                              |

---

**Figure S2.** Venn diagram of counts of cells showing significant PE as identified by CANAPE using either the 3,513 OTUs representing the native genera (**A**, red circle) or only the 154 OTUs representing the endemic genera (**B**, green circle). A has 113 grid cells. B has 61 grid cells, and there are 41 overlapping cells between A and B



**Figure S3.** The collection density of the spatial data records for per grid cell

