

Table 1 List of 41 tree peony cultivars used in analysis of genetic diversity

| Serial no. | Cultivar name | Origin | Main traits | | |
|------------|--------------------|---------|-------------|--------------|-----------------------|
| | | | Florescence | Flower state | Plant type |
| 1 | Togawakan | Japan | Medium | Upwards | Medium and erect |
| 2 | Kanzakura Jishi | Japan | Late | Upwards | Tall and erect |
| 3 | High Noon | America | Late | Outwards | Tall and semi-erect |
| 4 | Hanakisoi | Japan | Late | Upwards | Tall and erect |
| 5 | Yachiyotsubaki | Japan | Late | Outwards | Medium and erect |
| 6 | Asahi-minato | Japan | Late | Upwards | Medium and erect |
| 7 | Okina Jishi | Japan | Late | Upwards | Medium and erect |
| 8 | Hohki | Japan | Late | Upwards | Medium and erect |
| 9 | Hyuhga | Japan | Late | Upwards | Tall and erect |
| 10 | Shin Shichifukujin | Japan | Late | Upwards | Tall and erect |
| 11 | Kagura Jishi | Japan | Late | Upwards | Tall and erect |
| 12 | Taiyoh | Japan | Medium | Outwards | Medium and erect |
| 13 | Baidailiufang | Japan | Late | Hidden | Dwarf and erect |
| 14 | Shima Nishiki | Japan | Late | Upwards | Medium and erect |
| 15 | Shimadaijin | Japan | Late | Outwards | Tall and semi-erect |
| 16 | Kohka Mon | Japan | Late | Upwards | Tall and semi-erect |
| 17 | Godai-shu | Japan | Late | Upwards | Tall and erect |
| 18 | Kaoh | Japan | Late | Outwards | Medium and erect |
| 19 | Akashigata | Japan | Late | Upwards | Tall and erect |
| 20 | Chohjuraku | Japan | Late | Upwards | Tall and erect |
| 21 | Qinglongwomochi | China | Medium | Outwards | Medium and semi-erect |
| 22 | Xueyingzhaoxia | China | Late | Downwards | Tall and spreading |
| 23 | Wanghong | China | Medium | Outwards | Medium and semi-erect |
| 24 | Yinlingbizhu | China | Medium | Outwards | Tall and erect |
| 25 | Xianchizheng chun | China | Medium | Upwards | Medium and semi-erect |
| 26 | Yinhongqiao dui | China | Medium | Upwards | Medium and semi-erect |
| 27 | Cangzhihong | China | Early | Hidden | Dwarf and semi-erect |
| 28 | Yuloudiancui | China | Late | Downwards | Medium and semi-erect |
| 29 | Lvxiangqiu | China | Late | Outwards | Tall and semi-erect |
| 30 | Shanhutai | China | Medium | Outwards | Medium and semi-erect |
| 31 | Shouanhong | China | Medium | Outwards | Tall and semi-erect |
| 32 | Heitaohuang hou | China | Late | Upwards | Medium and semi-erect |
| 33 | Yanrongzi | China | Medium | Upwards | Dwarf and semi-erect |
| 34 | Huhong | China | Medium | Outwards | Dwarf and semi-erect |
| 35 | Doulv | China | Late | Downwards | Dwarf and spreading |
| 36 | Yaohuang | China | Medium | Outwards | Tall and semi-erect |
| 37 | Mingxing | China | Medium | Outwards | Dwarf and semi-erect |
| 38 | Luoyang hong | China | Early | Upwards | Tall and erect |
| 39 | Zhihong | China | Medium | Outwards | Medium and semi-erect |
| 40 | Zhaozi | China | Late | Outwards | Dwarf and semi-erect |
| 41 | Congzhong xiao | China | Medium | Upwards | Medium and erect |