

**Table 1 | Quantitative and categorical traits used in this study.**

| <b>Traits</b>                  | <b>Numerical range/Categories</b>                                |
|--------------------------------|--|
| <b>Quantitative</b>            |  |
| Plant height                   | 0.01-30m   |
| Flower width                   | 0.50-205mm   |
| Flower length                  | 0.20-195mm   |
| Inflorescence width            | 0.80-300mm   |
| Style length                   | 0-138mm  |
| Ovules per flower              | 1-25 x 10 <sup>3</sup>   |
| Flowers per plant              | 1-18 x 10 <sup>4</sup>   |
| Microliters of nectar          | 0-160 $\mu$ l  |
| Milligrams of nectar           | 0-6.1mg  |
| Nectar concentration           | 0-100%   |
| Pollen grains per flower       | 13-2 x 10 <sup>8</sup>   |
| Autonomous selfing (fruit set) | 0-100%   |
| <b>Categorical</b>             |  |
| Lifepan                        | Short-lived and perennial  |
| Life form                      | Herb, shrub and tree   |
| Flower shape                   | Brush, campanulate, capitulum, open, papilionaceous and tube     |
| Flower symmetry                | Actinomorphic and zygomorphic                                    |
| Nectar                         | Presence and absence   |
| Compatibility system           | Self-incompatible, partially self-compabtile and self-compatible |
| Breeding system                | Hermaphrodite, monoecious and dioecious                          |