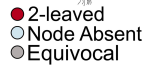
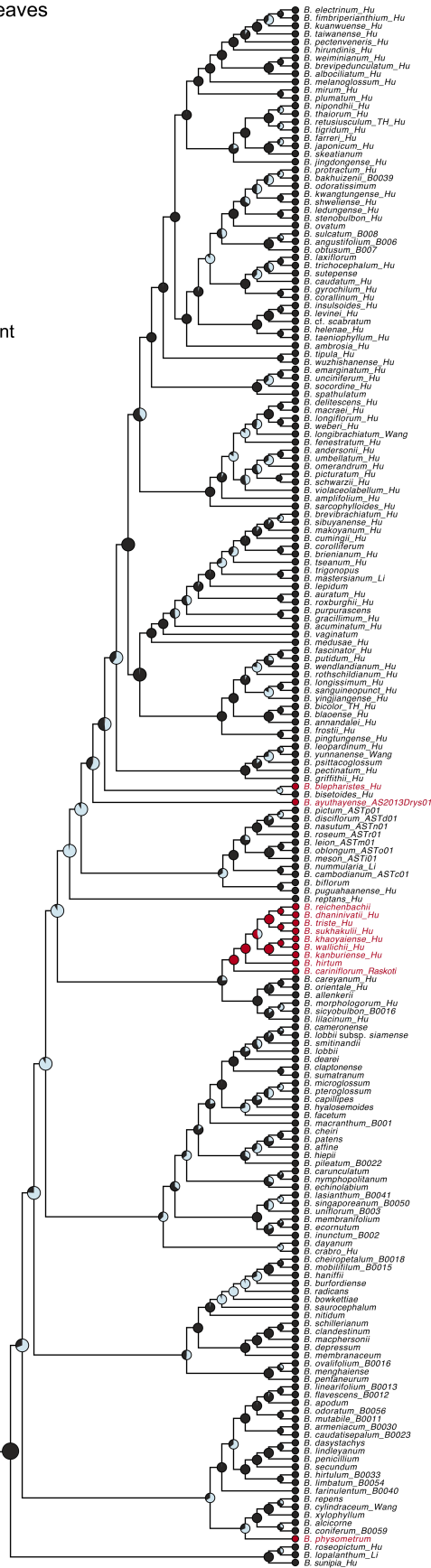


**Supplementary file 7 – Ancestral character state reconstruction in the Asian clade of *Bublophyllum* for each character**

# Number of leaves



Asian Clade



**Supplementary file 7.1. Ancestral character state reconstruction of the number of leaves per pseudobulb.** Pie charts at each node illustrate parsimony reconstructions states, with black representing 1-leaved pseudobulbs and dark red representing 2-leaved pseudobulbs.

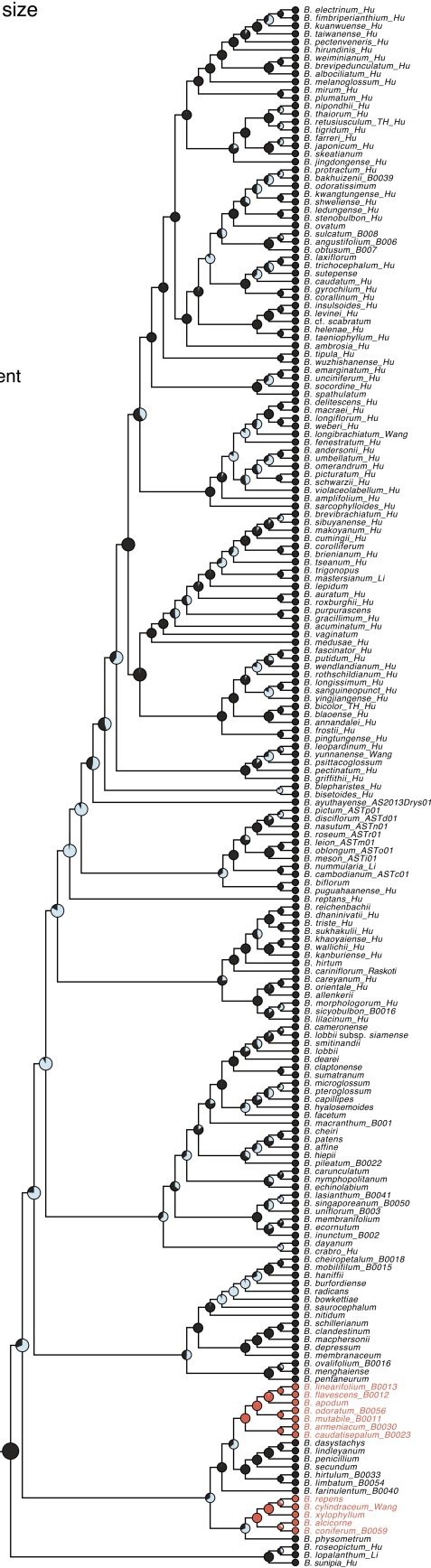
# Pseudobulb size



● Distinct

● Indistinct  
● Node Absent  
● Equivocal

Asian Clade



**Supplementary file 7.2. Ancestral character state reconstruction of pseudobulb size.** Pie charts at each node illustrate parsimony reconstructions states, with black representing distinct and orange representing indistinct states.

# Swollen apical sterile flower



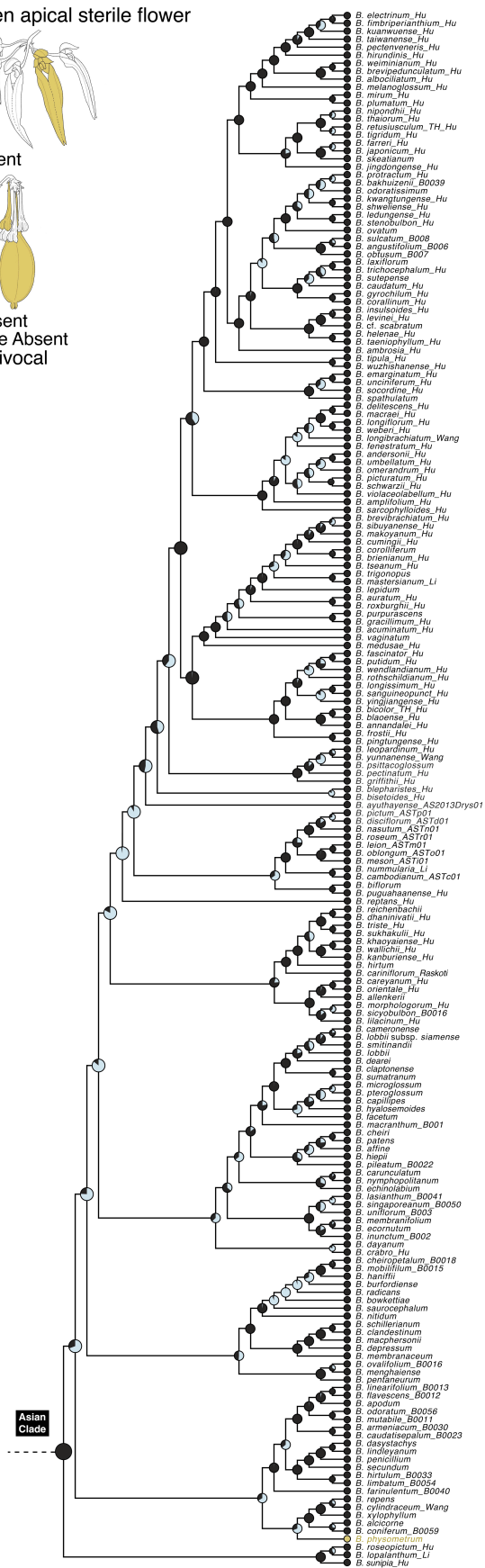
● Absent



● Present

● Node Absent

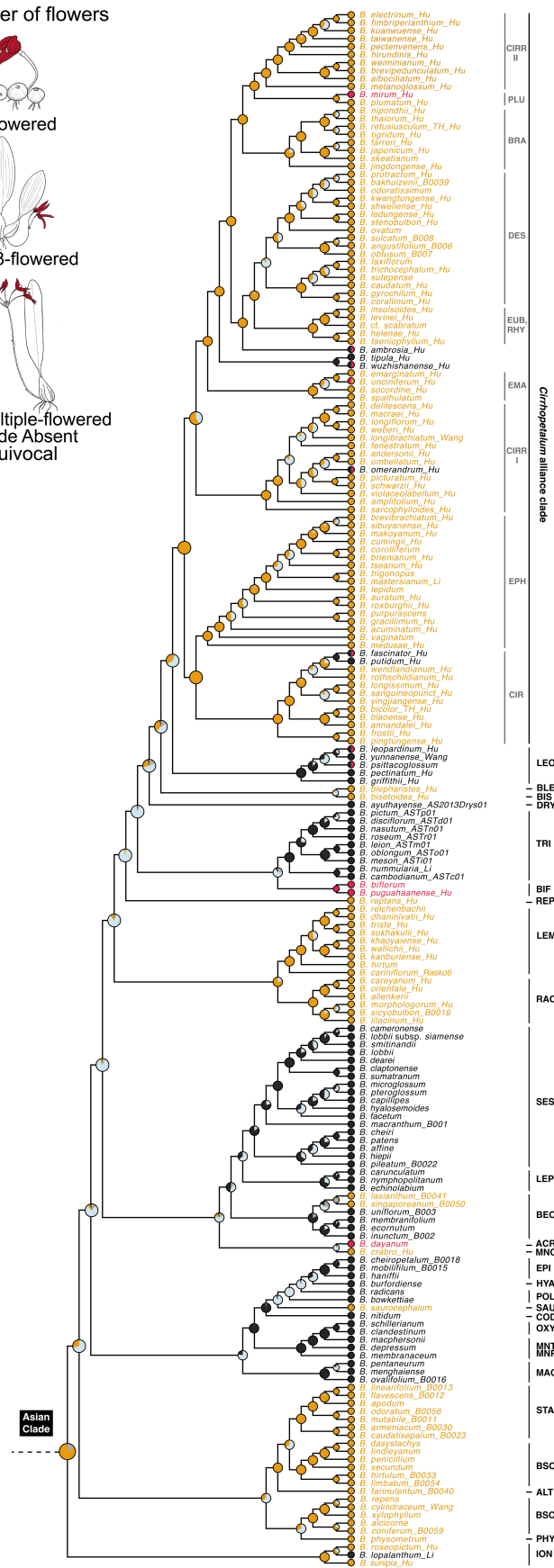
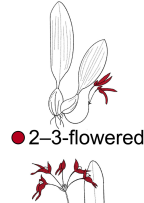
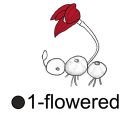
● Equivocal



**Supplementary file 7.3. Ancestral character state reconstruction of floral dimorphism.** Pie charts at each node illustrate parsimony reconstructions states, with black representing monomorphic flowers and yellow representing dimorphic flowers with a swollen ovary.

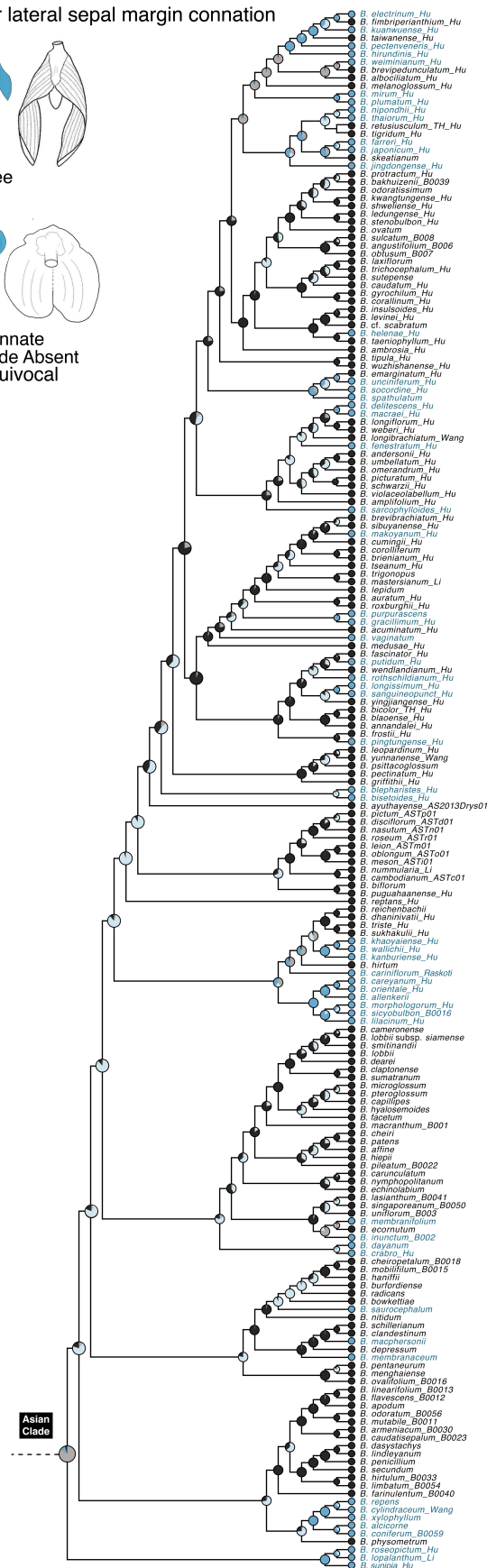
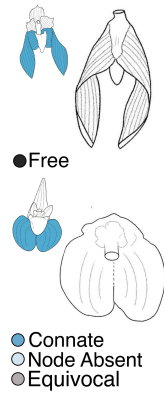


# Number of flowers



**Supplementary file 7.4. Ancestral character state reconstruction of the number of flowers per inflorescence.** Pie charts at each node illustrate parsimony reconstructions states, with black representing 1-flowered phenotypes, red representing 2–3-flowered phenotypes, and yellow representing multiple-flowered inflorescences.

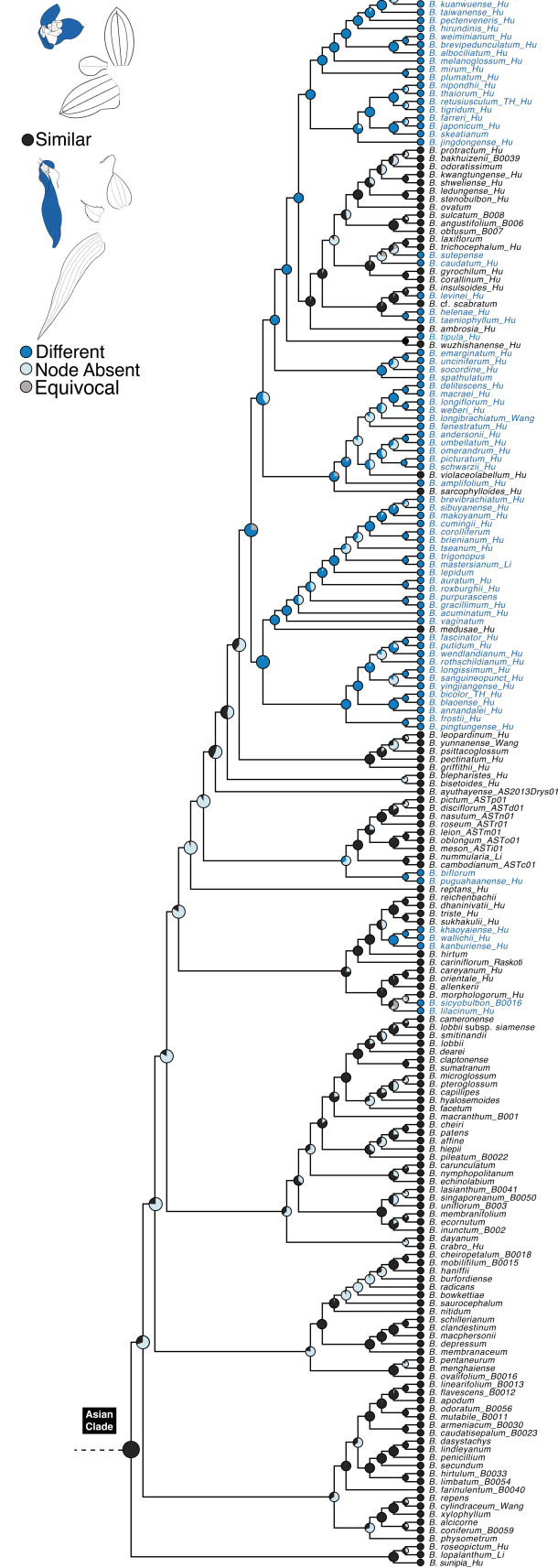
# Lower lateral sepal margin connation



CIRR II  
 PLU  
 BRA  
 DES  
 EUB, RHY  
 EMA  
 CIRR I  
 EPH  
 CIR  
 LEO  
 BLE  
 BIS  
 DRY  
 TRI  
 BIF  
 REP  
 LEM  
 RAC  
 SES  
 LEP  
 BEC  
 ACR  
 MNO  
 EPI  
 HYA  
 POL  
 SAU  
 COD  
 OXY  
 MNT  
 MNP  
 MAC  
 STA  
 BSC  
 ALT  
 BSC  
 PHY  
 ION

**Supplementary file 7.5. Ancestral character state reconstruction for connation of the lower margin of lateral sepals.** Pie charts at each node illustrate parsimony reconstructions states, with black representing free-margined and light blue representing connate states.

# Ratio of sepal lengths



**Supplementary file 7.6. Ancestral character state reconstruction of the ratio of sepal lengths.** Pie charts at each node illustrate parsimony reconstructions states, with black representing lateral and dorsal sepals that are similar in size and blue representing lateral and dorsal sepals of different sizes.