

FIGURE S1. Empirical distributions, median and tolerance intervals for quantitative standardized traits. Grey violin plots represent truncated kernel density estimates, i.e., the lower and upper boundaries of a violin plot are empirical min. and max., respectively. White circles stand for sample median. Black bars represent nonparametric tolerance intervals covering at least 80% of the population with 90% confidence. Trait symbols are the same as in Fig. 6 and in the text.

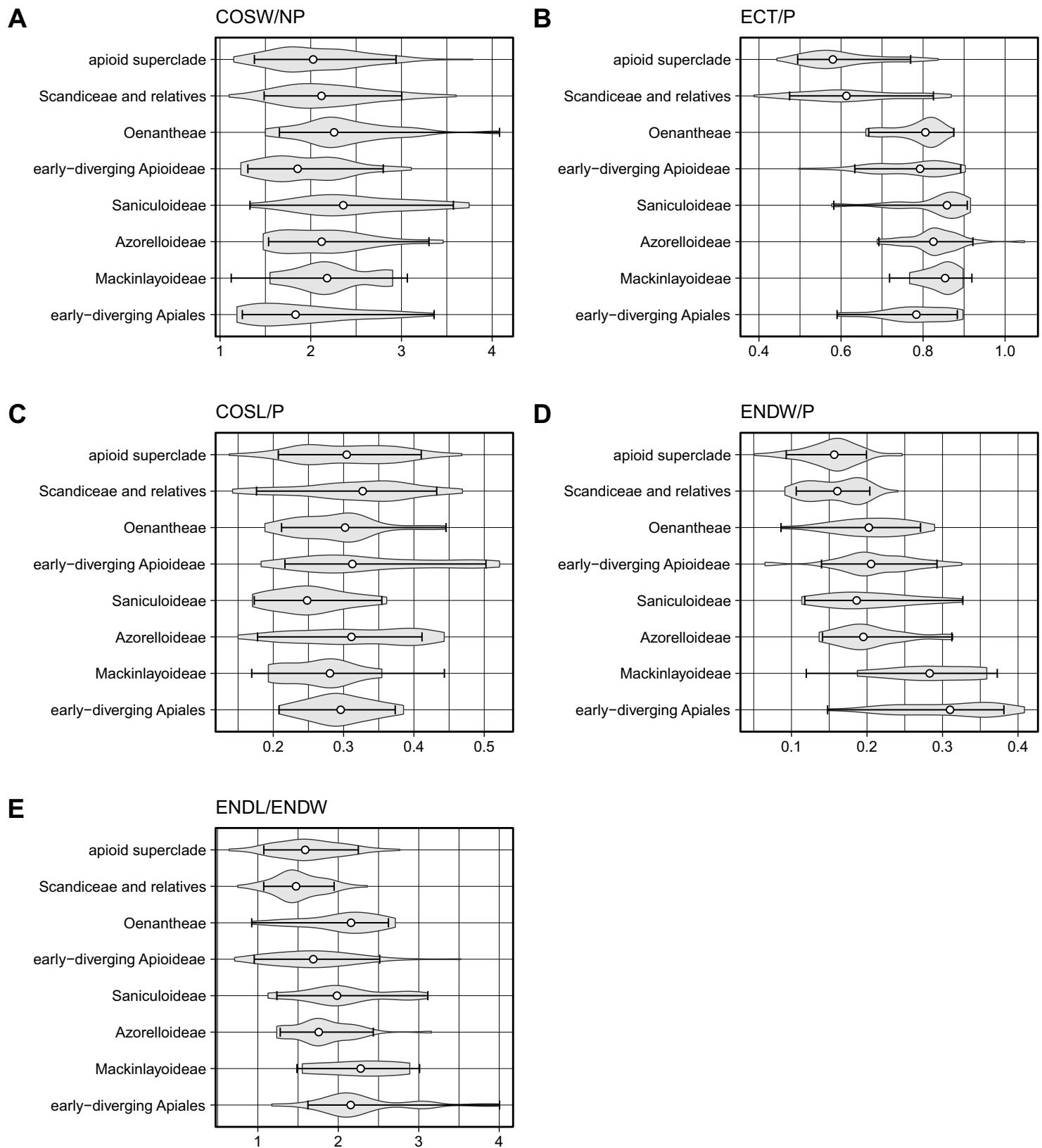
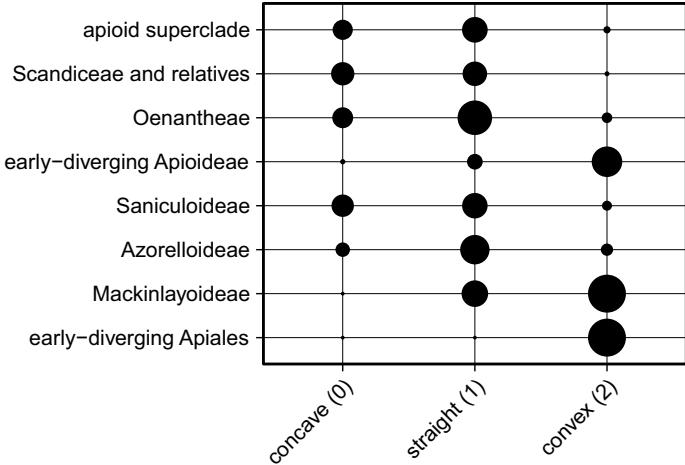


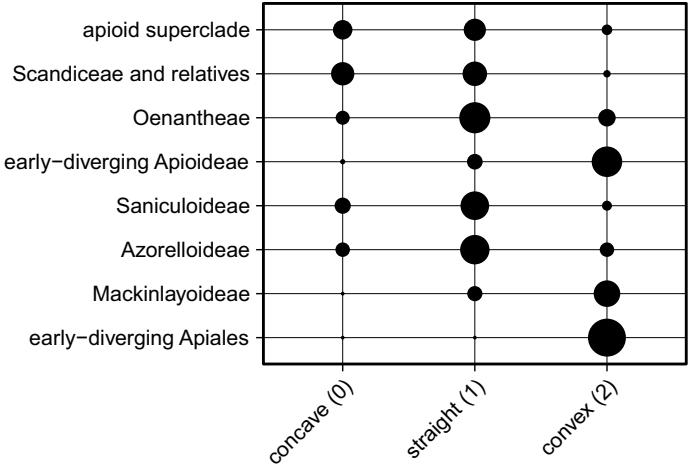
FIGURE S2. Empirical distributions, median and tolerance intervals for quantitative standardized traits. For details, see caption to Fig. S1.

A

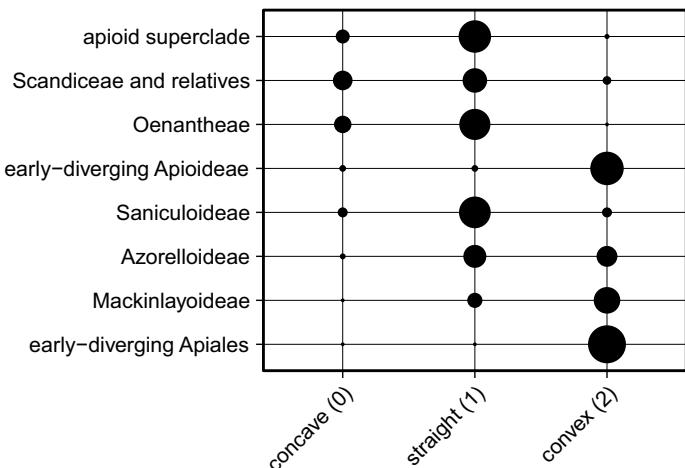
(C1)
Exine outline – inner mesocolpium

**B**

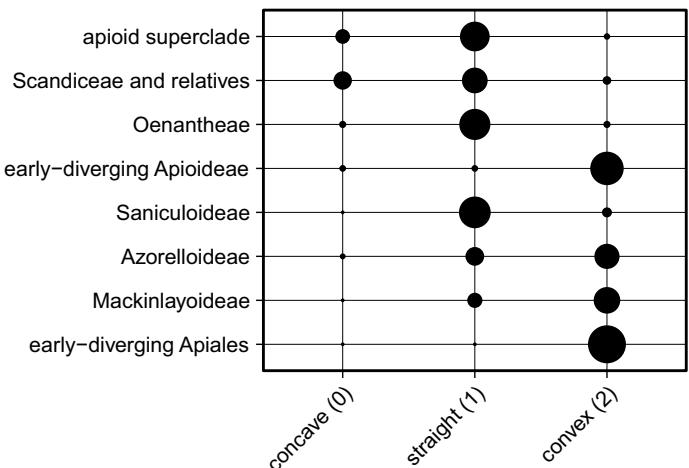
(C2)
Exine outline – outer mesocolpium

**C**

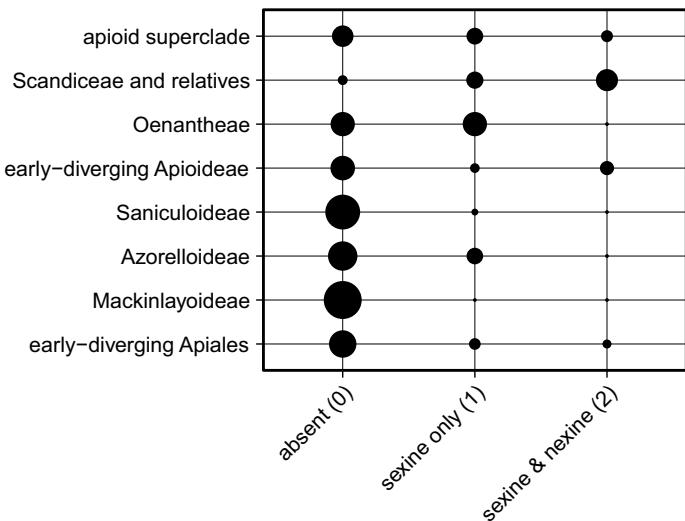
(C3)
Exine outline – inner colpus

**D**

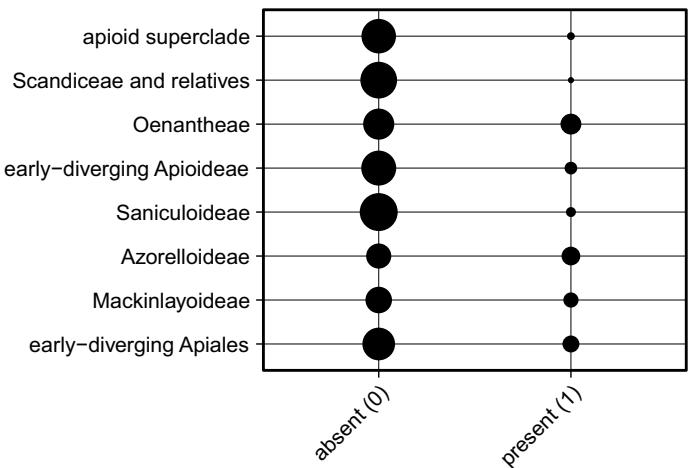
(C4)
Exine outline – outer colpus

**E**

(C5)
Exine apiculation

**F**

(C6)
Fastigium

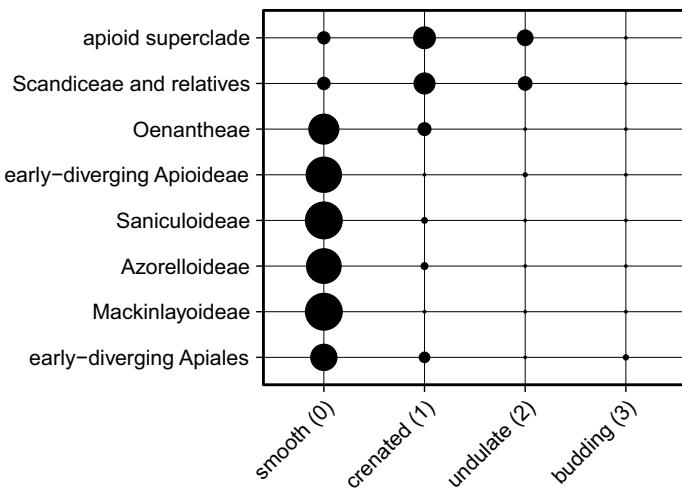


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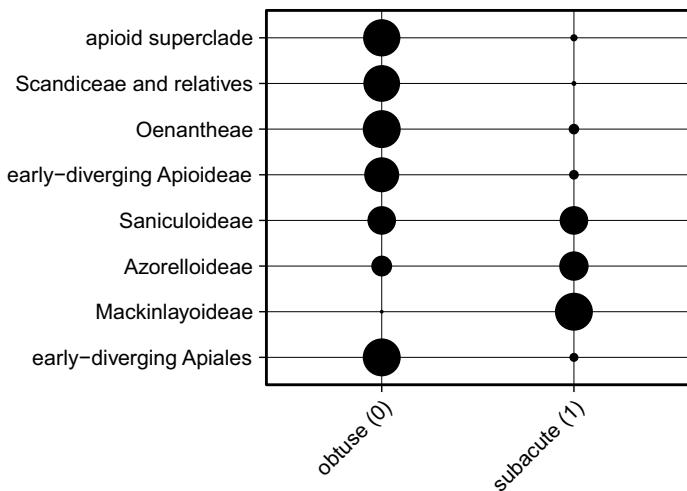
FIGURE S3. Empirical distributions of qualitative traits. For a given taxon and trait, the radius of each circle is proportional to the fraction of species having given state of the trait. A sum of the fractions larger than unity indicate the presence of polymorphic species within a given taxon.

A

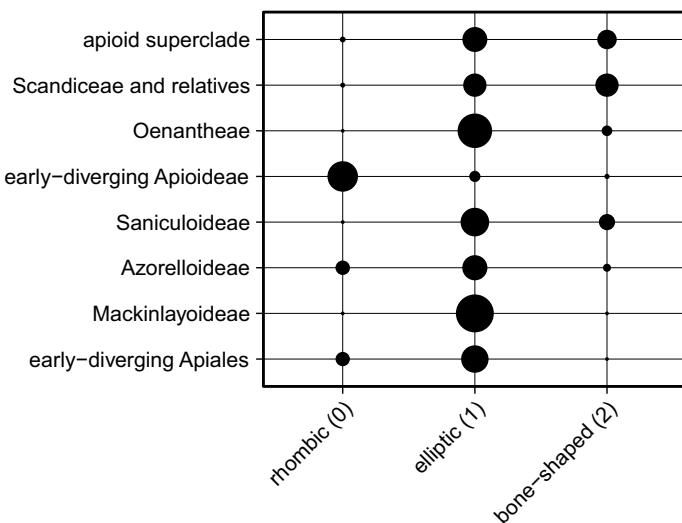
(C7)
Sexine undulation at mesocolpium site

**B**

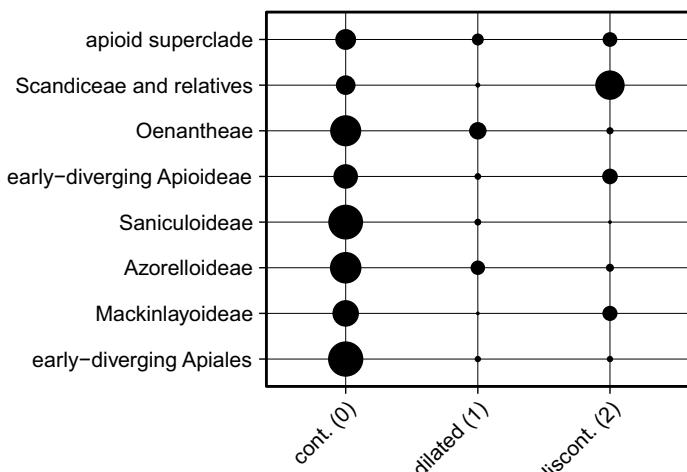
(C8)
Polar caps

**C**

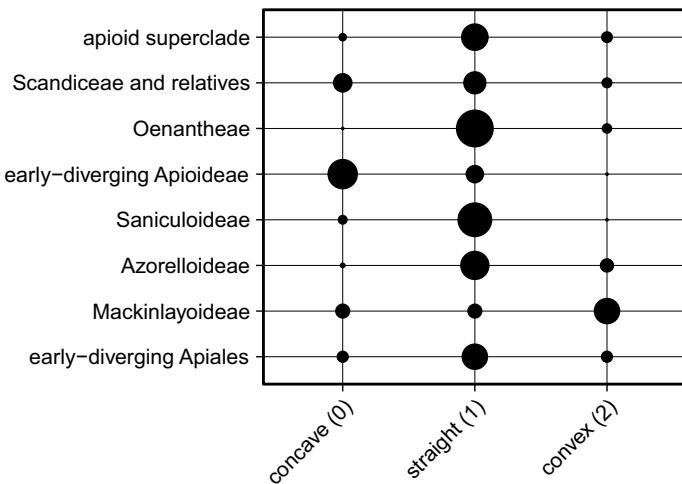
(C9)
General outline

**D**

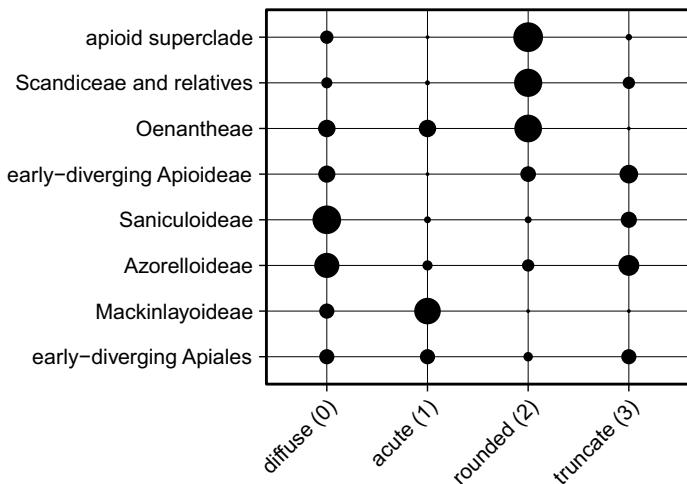
(C10)
Ectocolpus above equator

**E**

(C11)
Margins of endoaperture

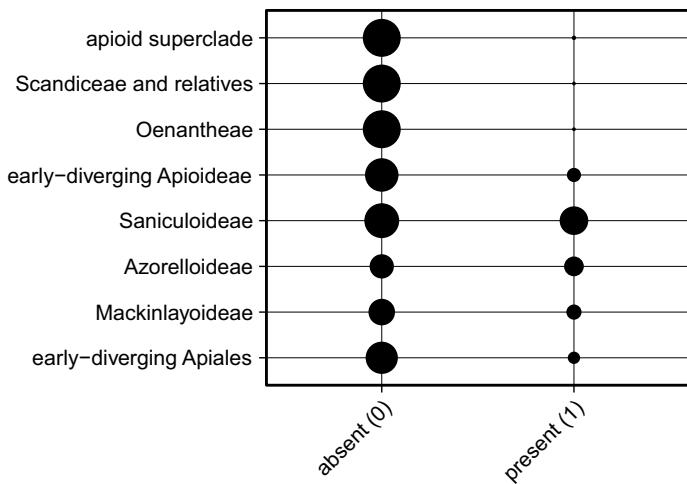
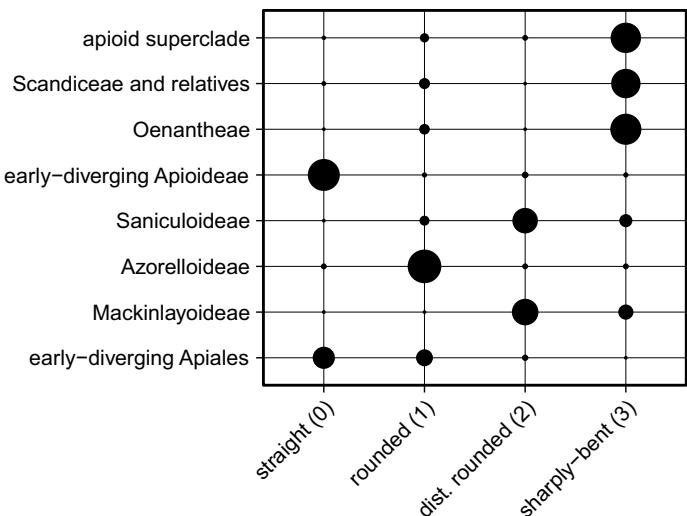
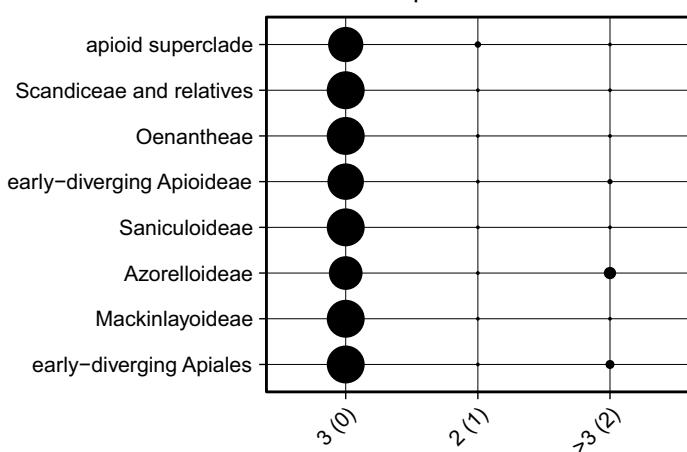
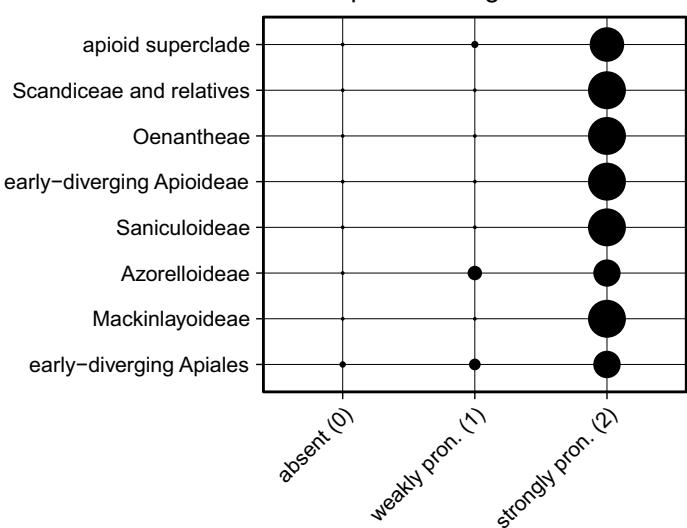
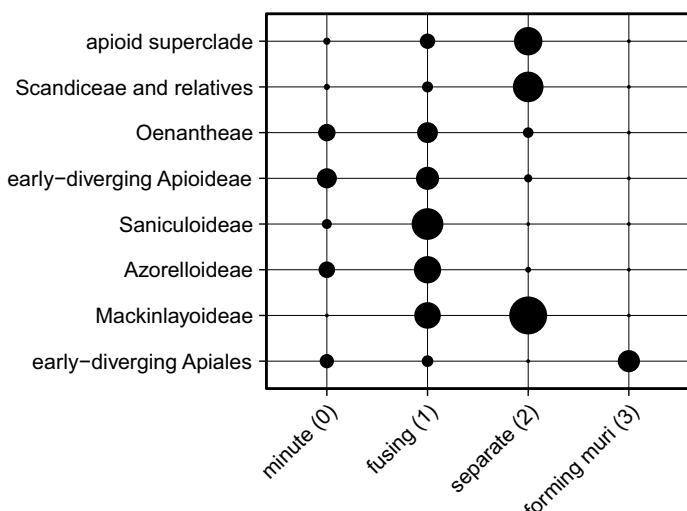
**F**

(C12)
Ends of endoaperture



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FIGURE S4 Empirical distributions of qualitative traits. For details, see caption to Fig. S3.

A(C13)
Horned ends of endoaperture**B**(C14)
Mesocolpium shape**C**(C15)
Number of apertures**D**(C16)
Ectocolpus infolding**E**(C17)
Columellae at poles

Fraction · 0.00 • 0.25 ● 0.50 ● 0.75 ● 1.00

FIGURE S5. Empirical distributions of qualitative traits. For details, see caption to Fig. S3.