

Supplementary Materials

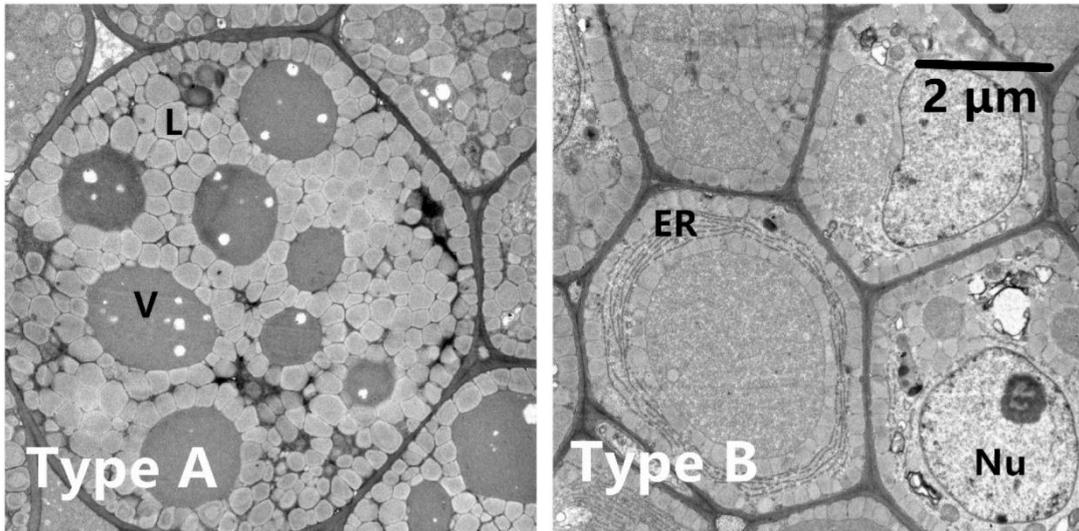


Figure S1. Two types of TEM images in *Styrox tonkinensis* embryo cells during seed development. Type A was found in cotyledons, and Type B was mostly found in axis. L, lipid body; Nu, nucleolus; V, vacuole; ER, Endoplasmic reticulum.

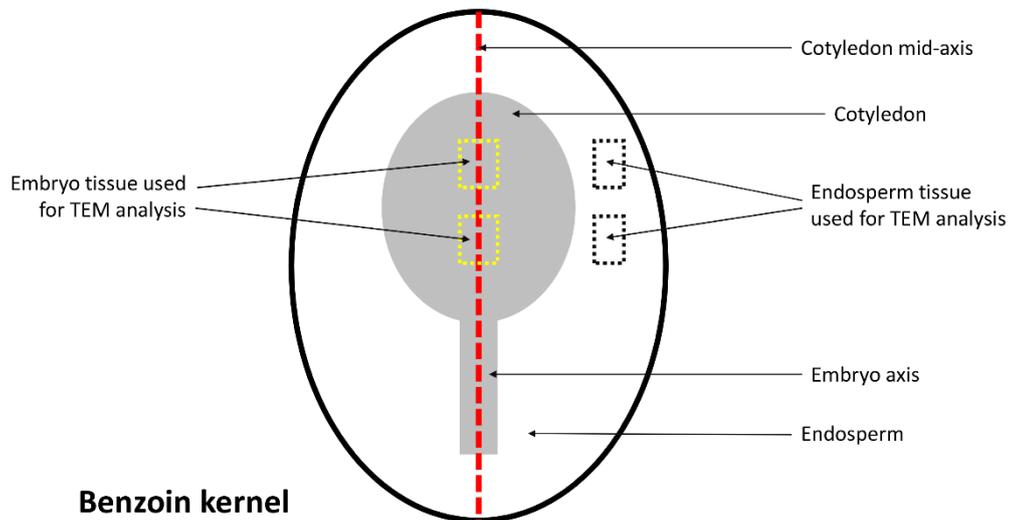


Figure S2. The kernel sections selected for TEM study are shown. Two sections (indicated by the yellow dashed dots) along the cotyledon mid-axis (red dashed line) are chosen for the embryo TEM qualification analysis. Two endosperm sections near the cotyledon (indicated by the black dots) are used for endosperm ROA and OBD.

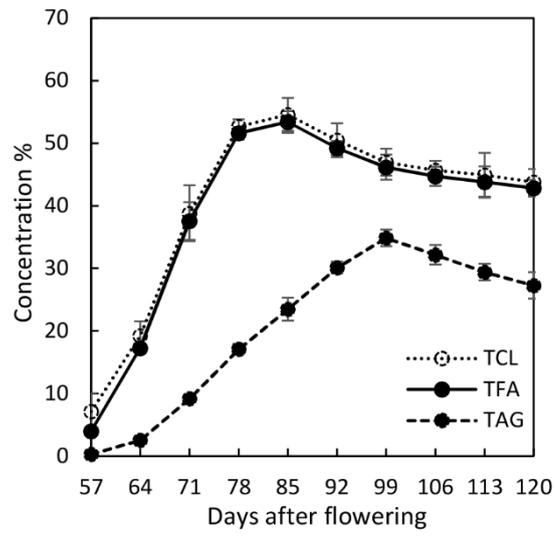


Figure S3. Total crude lipid (TCL), total fatty acids (TFA) and triacylglycerol (TAG) concentration (100%×w/w) in the developing dry kernels of *Styrax tonkinensis*.

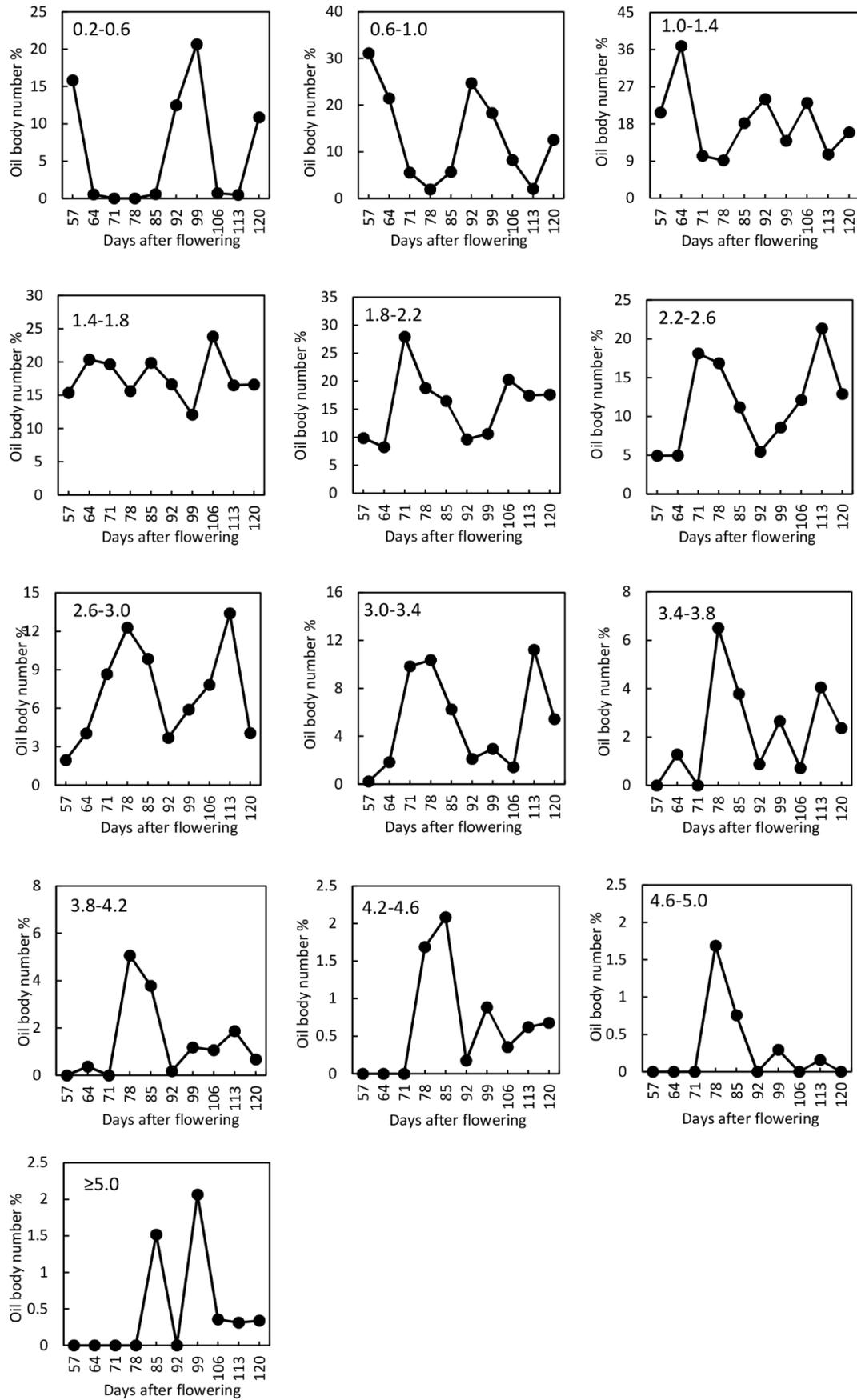


Figure S4. Dynamics of oil body number proportions under various OB sizes (μm) in benzoin endosperm cells. OB sizes were indicated in each line chart.

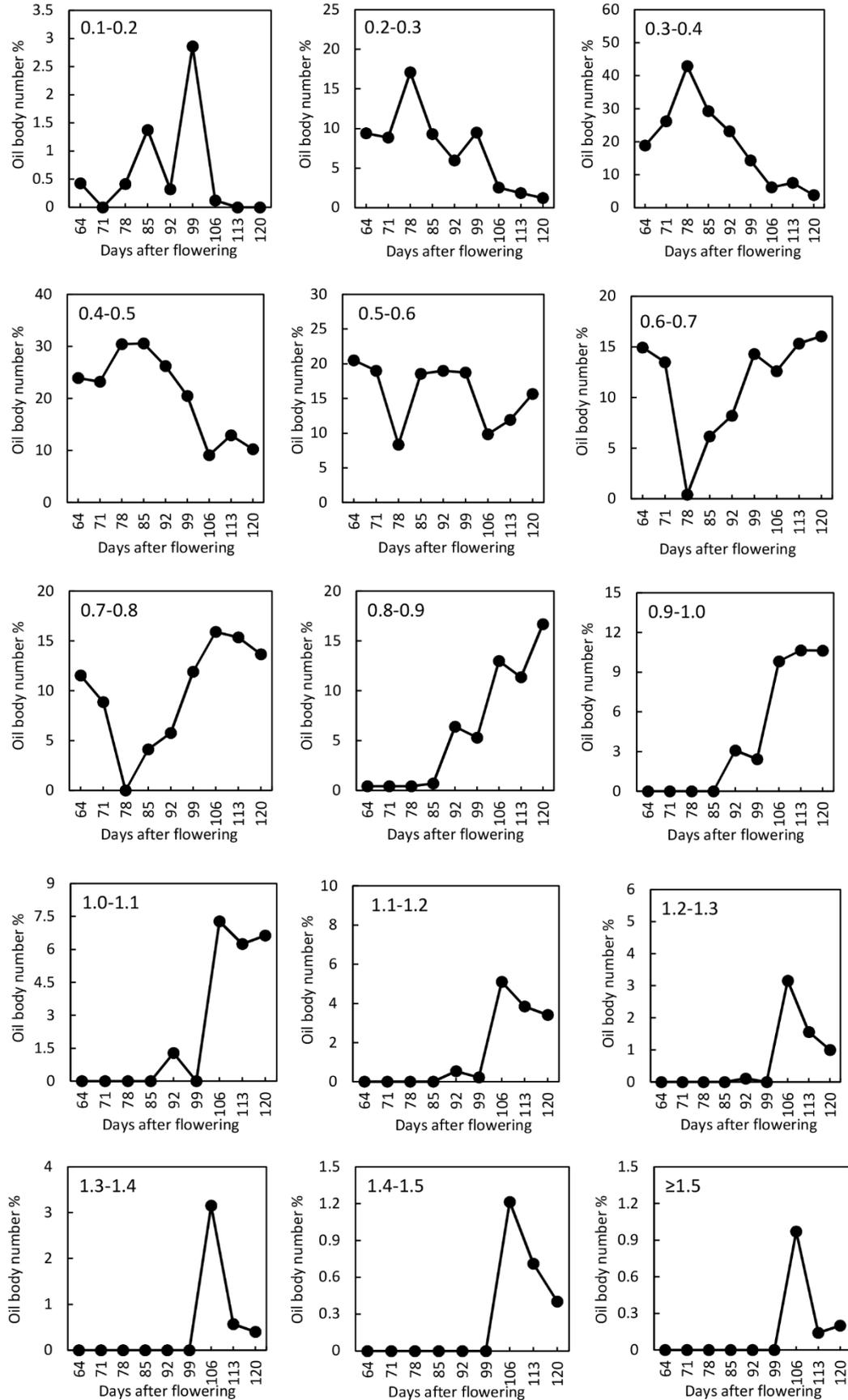


Figure S5. Dynamics of oil body number proportions under various OB sizes (μm) in benzoin embryo cells. OB sizes were indicated in each line chart.