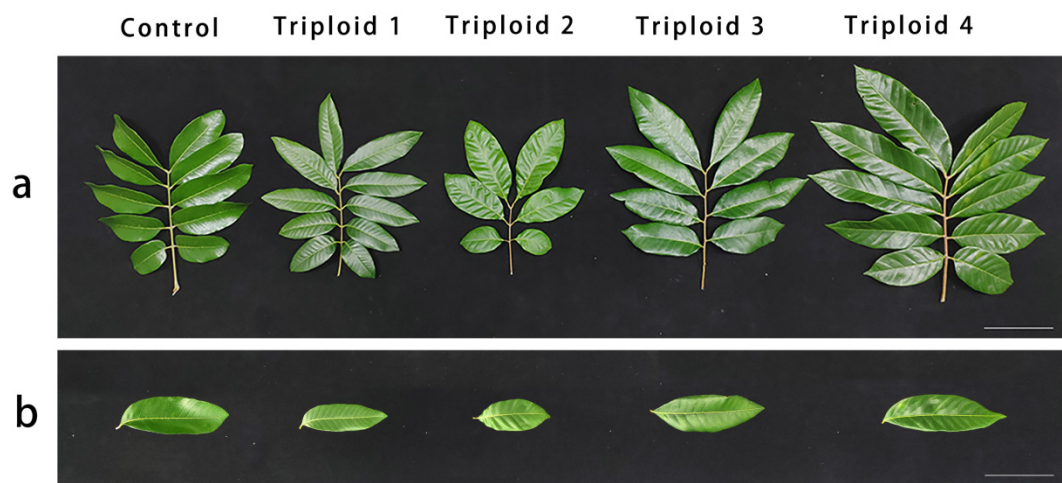
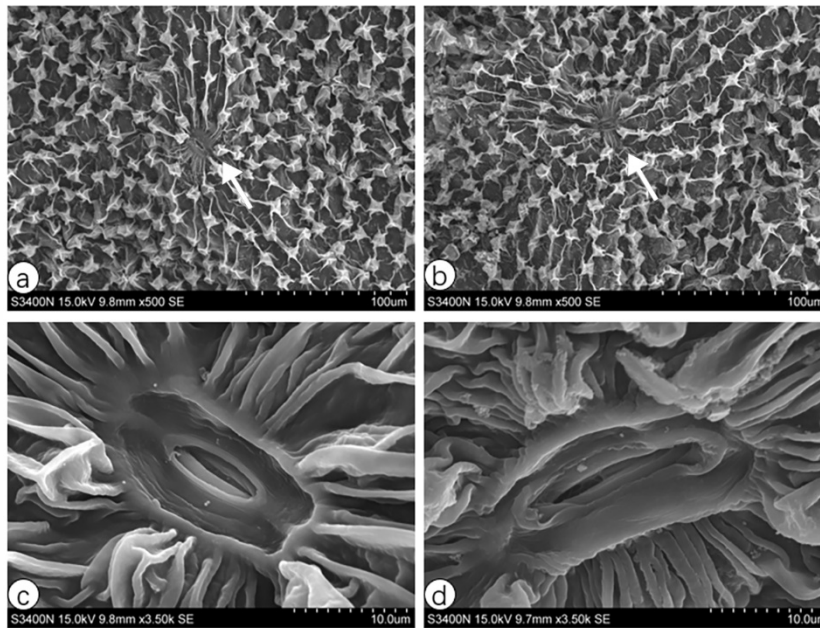


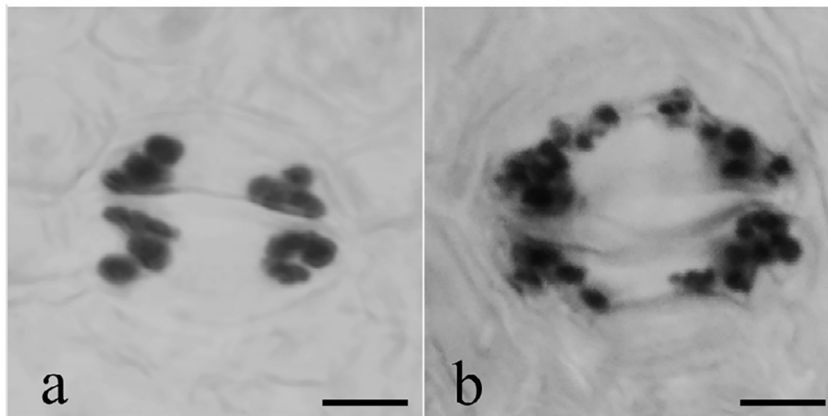
**Supplemental Figure S1.** The growth of triploid and diploid plants: (a) Diploid (control), (b) Triploid 1, (c) Triploid 2, (d) Triploid 3, and (e) Triploid 4.



**Supplemental Figure S2.** The leaf morphology of triploid and diploid plants. (a) The compound leaf morphology of triploid and diploid plants. (b) The leaflet morphology of triploid and diploid plants. Scale bar = 10 cm.



**Supplemental Figure S3.** Observation of stomatal characteristics and distribution of triploid and diploid leaves. (a) Stomatal distribution of diploid leaves. The stomata are indicated by the arrow. Scale bar =100 μm. (b) Stomatal distribution of triploid leaves. Scale bar =100 μm. (c) Stomatal characteristics of diploid leaves. Scale bar =10 μm. (d) Stomatal characteristics of triploid leaves. Scale bar =10 μm.



**Supplemental Figure S4.** Observation of chloroplast number in stomatal guard cells of triploid and diploid leaves. (a) Chloroplast number in stomatal guard cells of diploid leaves. (b) Chloroplast number in stomatal guard cells of triploid leaves. Scale bar =10 μm.

**Supplemental Table S1.** The morphological characteristics of male flower buds according to the meiotic process of microspore mother cells.

Stage	Diameter (mm)	Flower weight (mg)	Morphological characteristics	Meiotic process of microspore mother cells
Stage I	1.4–2.0	0.78–2.58	light green, sepals completely closed, stamens and pistils clearly visible	mainly in pachytene, diplotene, and diakinesis stage
Stage II	2.1–3.0	2.73–5.50	brown-green, sepals closed, stamens and pistils equal in height	at all meiotic stages
Stage III	3.1–3.8	6.00–8.66	yellow-green, sepals slightly open, stamens higher than (atrophic) pistils	mainly in microspore stage, with very few in the tetrad stage
Stage IV	3.9–4.4	9.12–14.37	light yellow, sepals open to reveal the stamens	all in microspore stage
Stage V	over 4.4	over 15.00	yellow and blooming, sepals fully spreading	meiosis has ended

**Supplemental Table S2.** The leaf characteristics of triploid and diploid plants.

Characteristics	Diploid (Control)	Triploid 1	Triploid 2	Triploid 3	Triploid 4
Plant height (cm)	80.70	65.50	39.80	94.50	91.00
Rachis length (cm)	17.68 ± 5.20 a	12.9 ± 3.68 ab	9.08 ± 2.63 b	9.08 ± 2.63 b	12.00 ± 4.80 ab
Number of leaflet	5	5	3	4	5
Leaflet blade shape	oblong	lanceolate	oblong	oblong	oblong
Leaflet margin	curved	curved	curved	curved	curved
Leaflet curvature	upward from midrib	upward from midrib	upward from midrib	upward from midrib	upward from midrib
Mature leaf colour	green	green	light green	green	green
Petiole length (cm)	0.76 ± 0.06 b	1.00 ± 0.00 a	0.70 ± 0.17 b	0.54 ± 0.06 c	0.68 ± 0.11 bc
Leaflet length (cm)	8.76 ± 1.77 b	9.52 ± 2.16 b	10.76 ± 3.14 b	12.68 ± 2.73 ab	16.54 ± 3.68 a
Leaflet width (cm)	3.28 ± 0.08 c	3.38 ± 0.26 c	4.46 ± 0.82 b	4.54 ± 0.48 b	5.44 ± 0.47 a
Leaflet thickness (cm)	0.26 ± 0.01 b	0.25 ± 0.02 b	0.26 ± 0.01 b	0.28 ± 0.01 a	0.28 ± 0.01 a
Stomatal length (mm)	21.66 ± 2.12 a	21.92 ± 1.21 a	22.52 ± 1.81 a	22.15 ± 1.59 a	21.60 ± 0.50 a
Stomatal width (mm)	13.88 ± 0.79 a	13.68 ± 0.42 a	12.61 ± 0.39 a	14.54 ± 1.18 a	13.67 ± 0.33 a

The data in the table are presented as means ± SD. Different lowercase letters in the same line indicate significant differences between plants at the  $p < 0.05$  level according to Duncan's multiple comparison tests.

**Supplemental Table S3.** Determination of chloroplast number in stomatal guard cells of triploid and diploid leaves.

Materials	Number of stomata	Chloroplast number range	Average chloroplast number	Coefficient of variation (%)
Diploid (Control)	50	11–23	17.0 b	14.4
Triploid	50	15–38	23.7 a	20.1

CV =  $(SD \div M) \times 100\%$ , CV—Coefficient of Variation, SD—Standard Deviation, M—Mean. Different lowercase letters in the same column indicate significant differences between treatments at the  $p < 0.05$  level according to Duncan's multiple comparison tests.