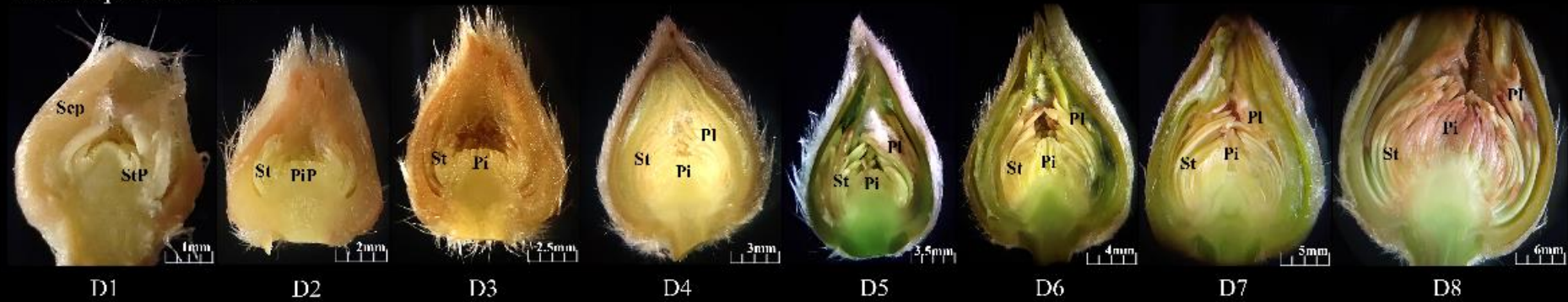


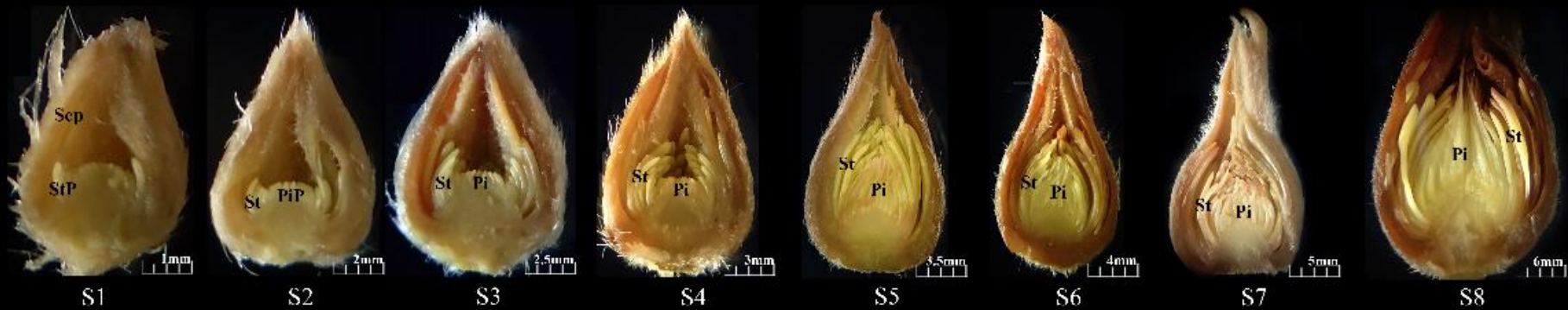
Supplementary Fig.S1 Anatomical observation and development status in each stage

A Anatomical observation under the stereomicroscope

Double-perianth buds



Single-perianth buds



Supplementary Table.S1 Stages division and the description of the buds' development status

Stages of division	Lengths	The status of flower buds		Figure S1
		Double-perianth	Single-perianth	
Stage 1	<5mm	From sepal primordium to sepals completely developed, stamen primordium emerged;	From sepal primordium to sepals completely developed, stamen primordium emerged;	D1: Sep, StP S1: Sep, StP
Stage 2	5-7.99mm	Stamens elongated and pistil primordium emerged;	Stamens elongated and pistil primordium emerged;	D2: St, PiP S2: St, PiP
Stage 3	8-10.99mm	Stamens increased inwards and continued elongation; pistils elongated;	Stamens increased inwards and continued elongation; pistils elongated;	D3: St, Pi S3: St, Pi
Stage 4	11-13.99mm	Stamens continued elongation and <i>began to change with some white trichomes</i> on them, pistils continued differentiation and elongation;	Stamens continued elongation, pistils continued differentiation and elongation;	D4: Pl, St, Pi S4: St, Pi
Stage 5	14-16.99mm	<i>Petaloid organs continued forming</i> , stamens and pistils continued elongation;	Stamens and pistils completed development;	D5: Pl, St, Pi S5: St, Pi
Stage 6	17-19.99mm	<i>Petaloid organs continued forming and development</i> , stamens and pistils continued elongation;	Sepals started to change color;	D6: Pl, St, Pi S6: St, Pi S6
Stage 7	20-24.99mm	<i>Petaloid organs completed formation</i> , stamens and pistils also completed development;	Sepals constantly changed color and shape;	D7: Pl, St, Pi S7: St, Pi S7
Stage 8	25-29.99mm	Sepals started to change color;	Sepals constantly changed color and shape;	D8 S8
Stage 9	30-39.99mm	Sepals were undergoing petaloid;	Sepals were undergoing petaloid;	
Stage 10	>40mm	All floral organs were fully developed, ready to bloom;	Ready to bloom;	

Sep: sepal; StP: stamen primordium; St: stamen; PiP: pistil primordium; Pi: pistil; Pl: petaloid-organ