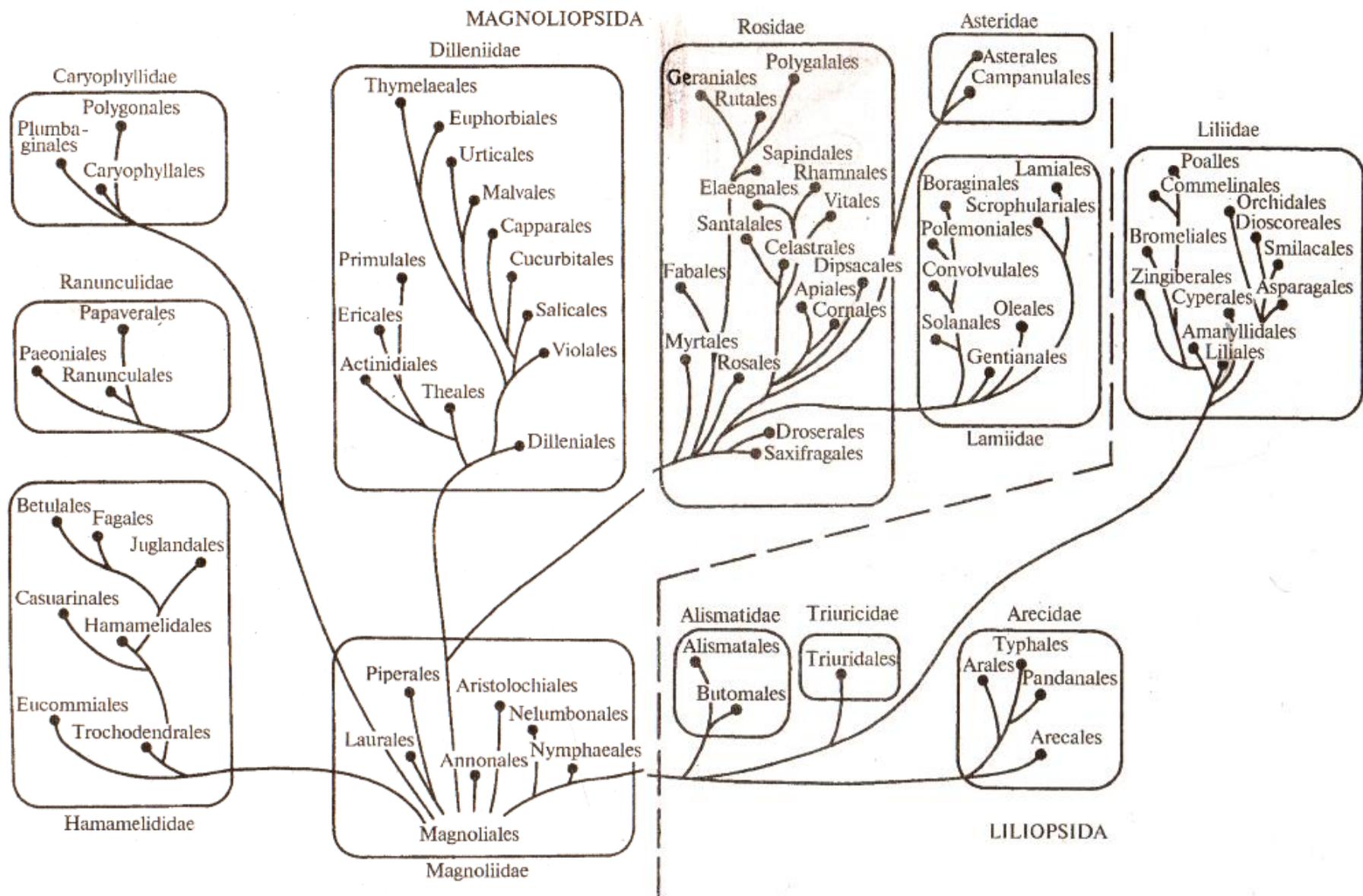


The Subclass Asteridae

Largest subclass of dicotyledonous plants

about 3,500 genera

about 65,000 species



The order ***Campanulales***

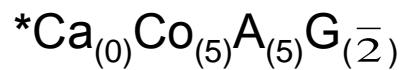
The Family ***Campanulaceae***



Campanula carpatica Jacq



Campanula patula



Campanula persicifolia



The order *Asterales*

The Family *Asteraceae (Compositae)*



It includes more than 24,000 species united in about 1,200 genera.



Petasites japonicus



Baccharis aphylla



Scorzonera austriaca Willd.



Lachnophyllum gossypinum Bunge.



Arctium lappa



Fitchia speciosa

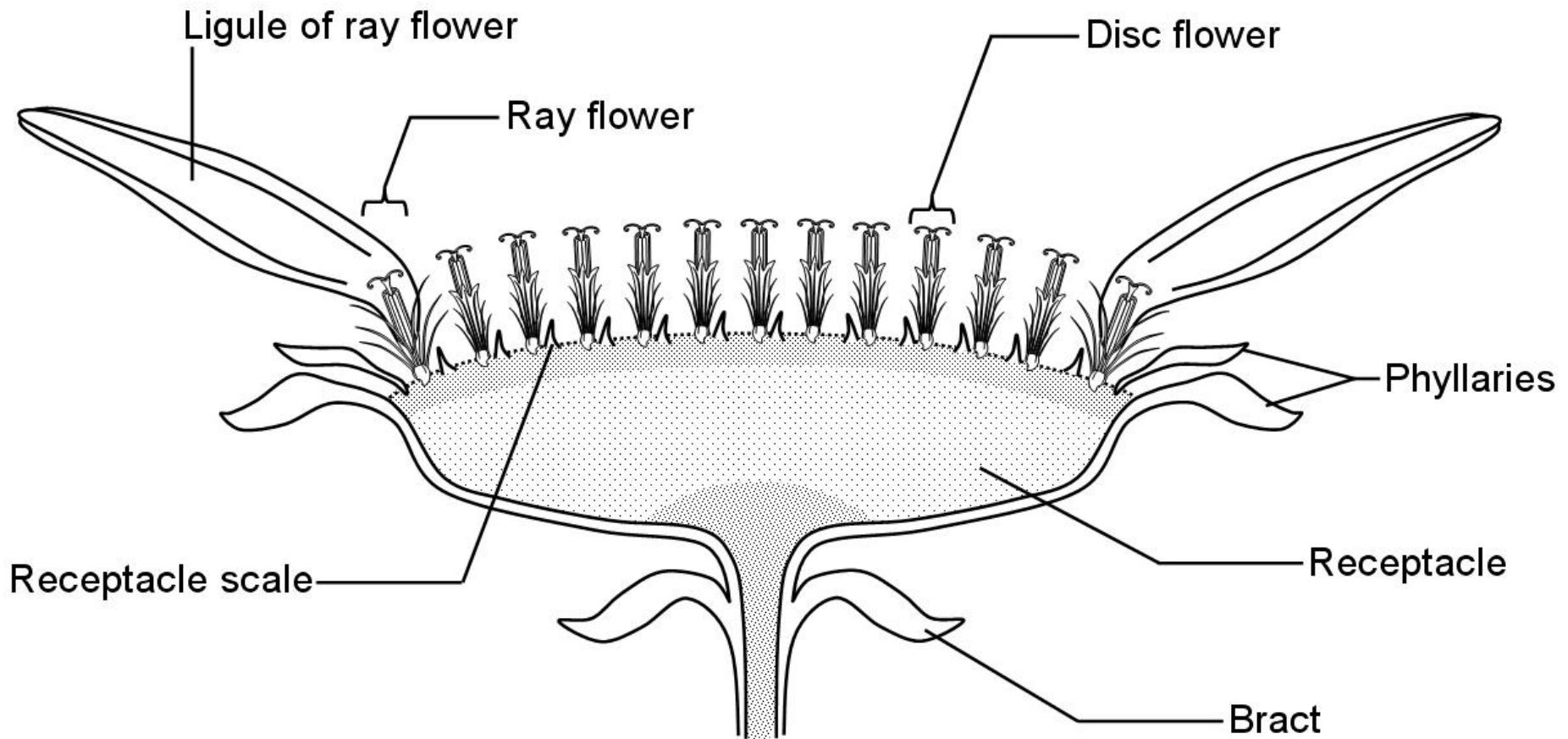


Scalesia pedunculata



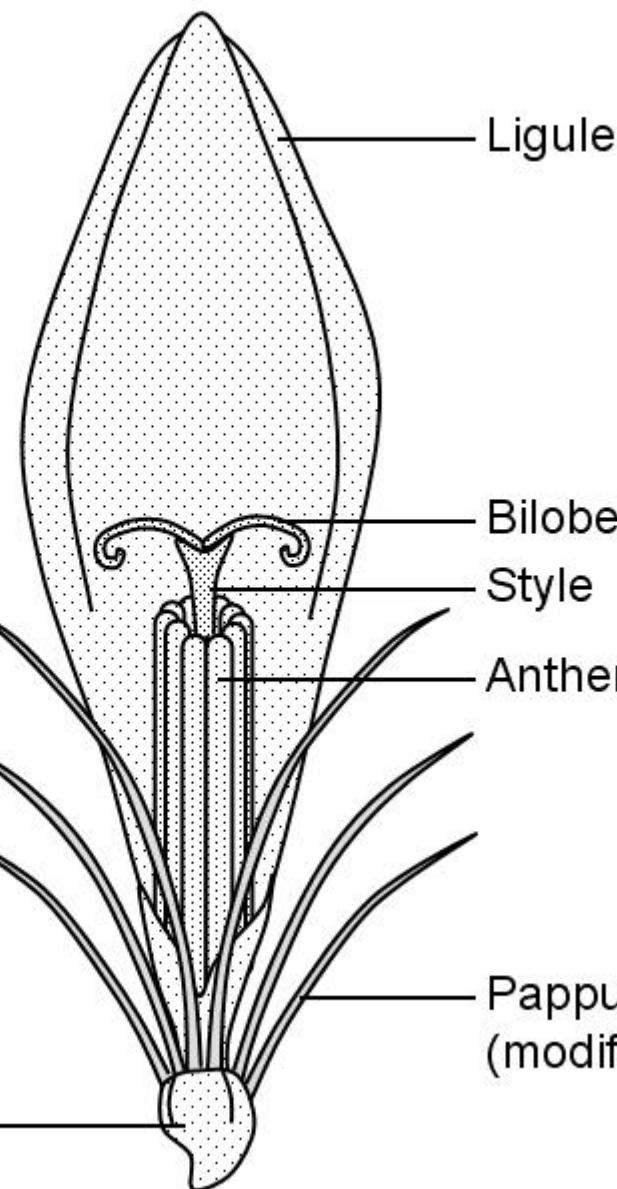
Haastia pulvinaris



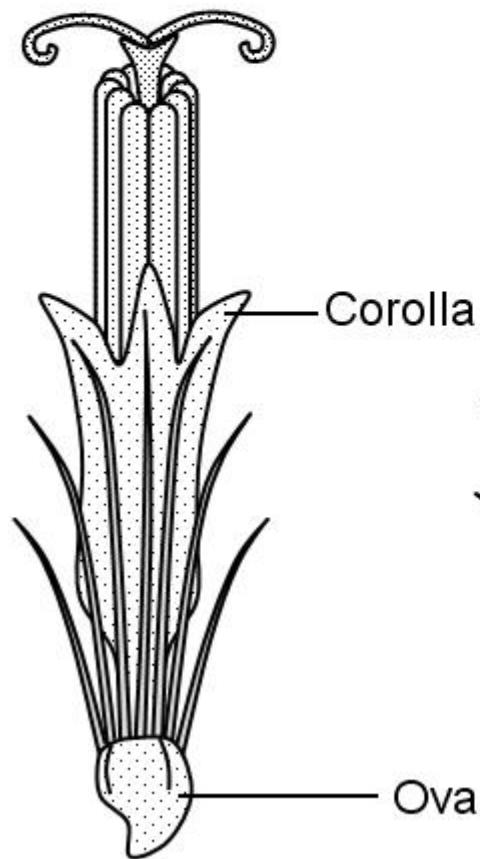


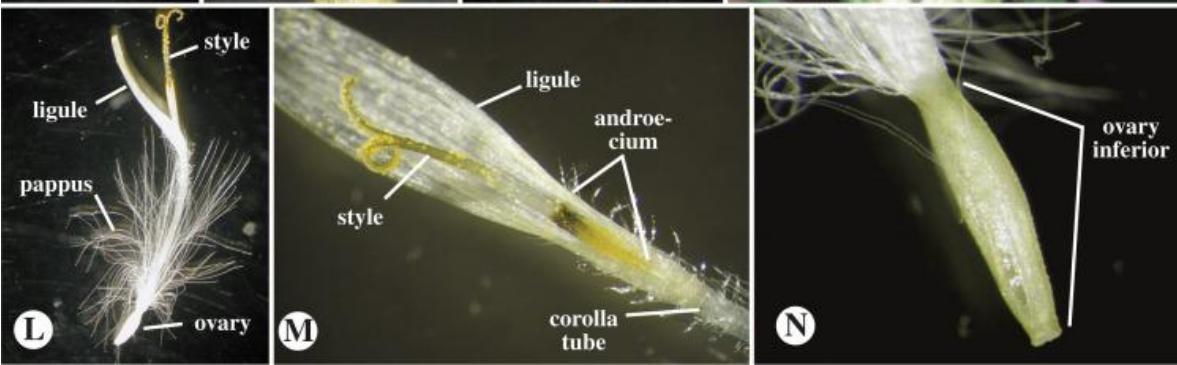
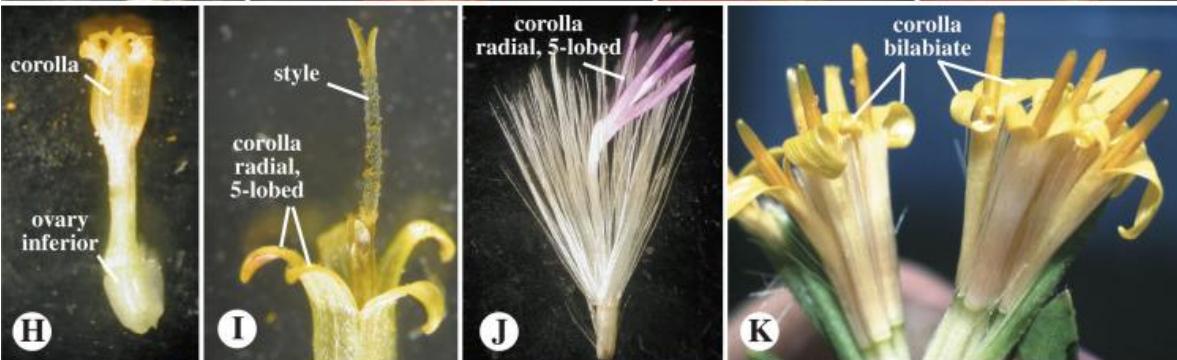
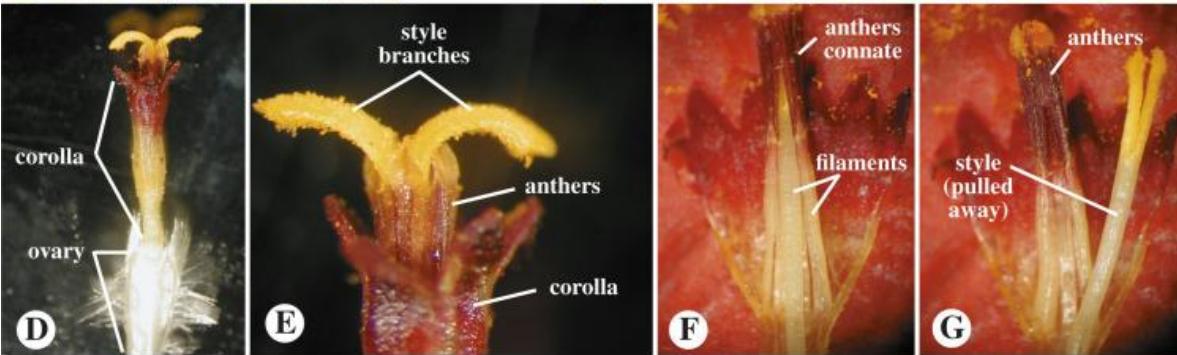
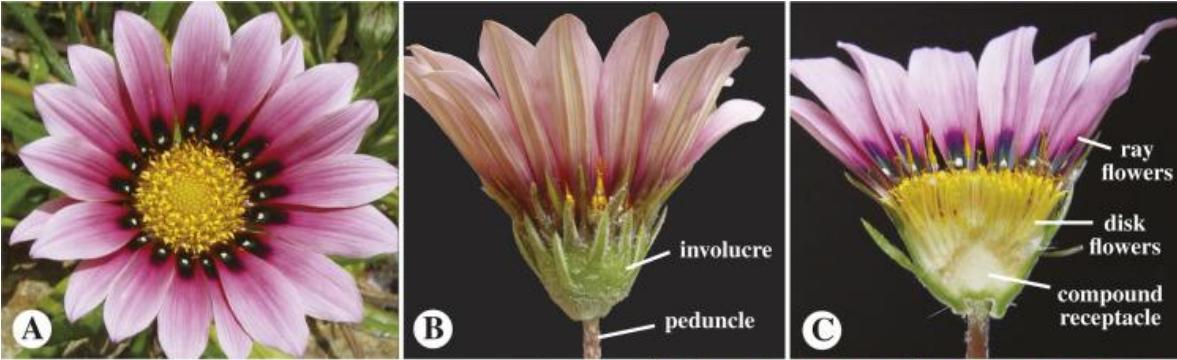
Composite Inflorescence
e.g. *Chrysanthemum*

Ray Flower

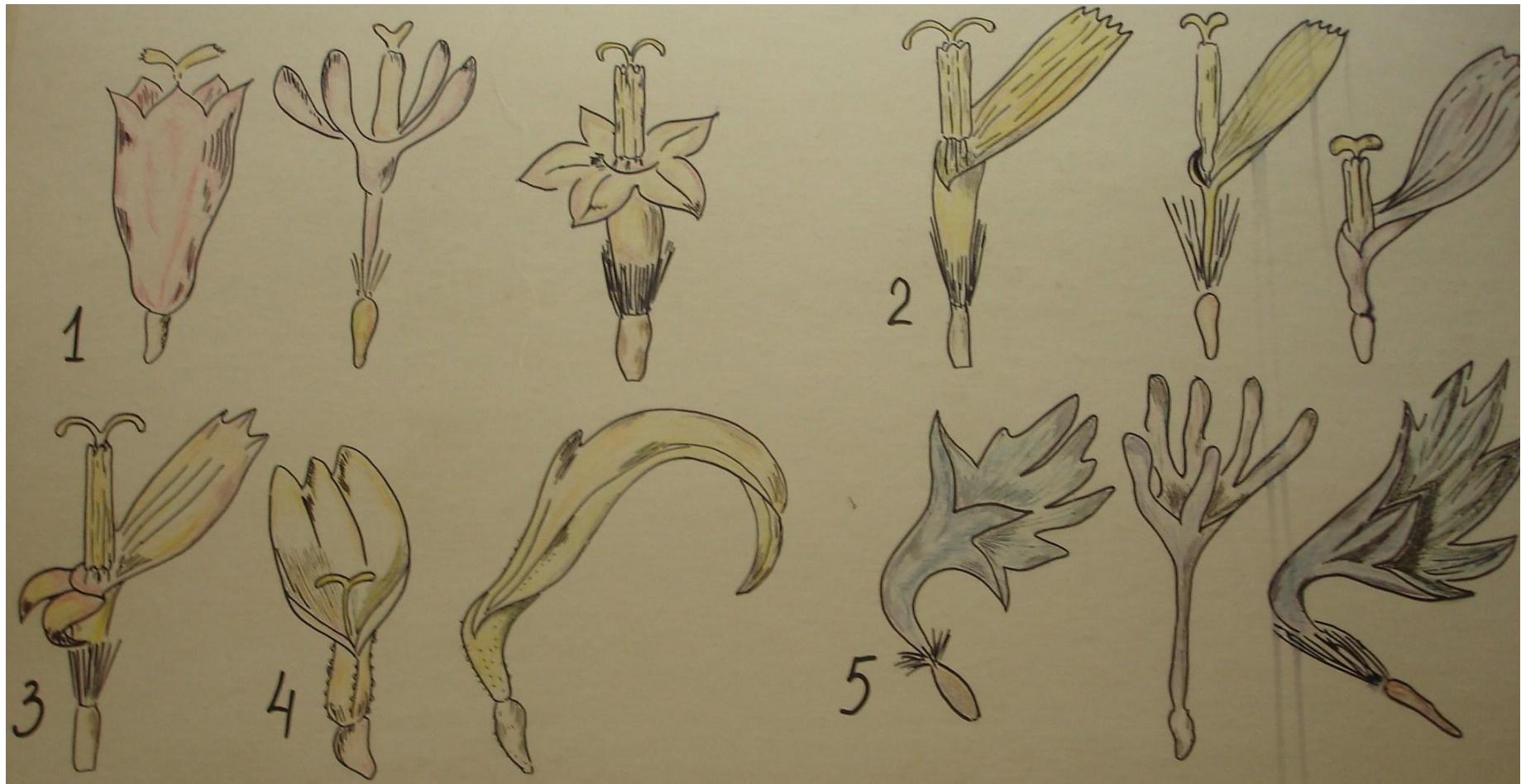


Disc Flower





Цветки Астровых

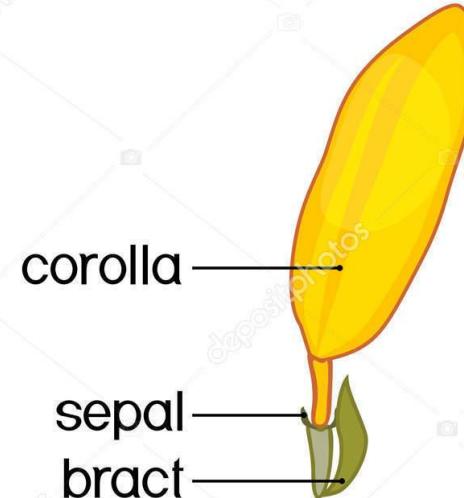


1 – tubular , 2 – lingual, 3 – bilabiate,
4 – false-lingual , 5 - funnel-shaped

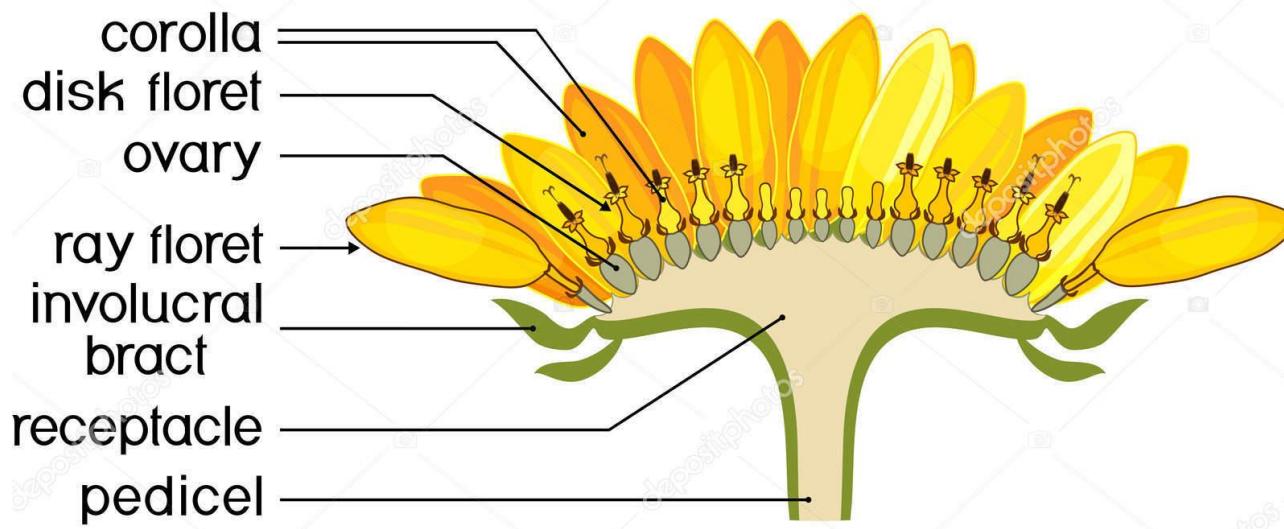
- 1. tubular *Ca(0)Co(5)A(5)G($\bar{2}$)
- 2. lingual \uparrow Ca0 Co(5)A(5)G($\bar{2}$)
- 3. false-lingual \uparrow Ca0Co(0+ 3)A0G($\bar{2}$)
- 4. funnel-shaped \uparrow Ca0Co(5)A0G0



disk floret



ray floret



inflorescence



Centaurea cyanus

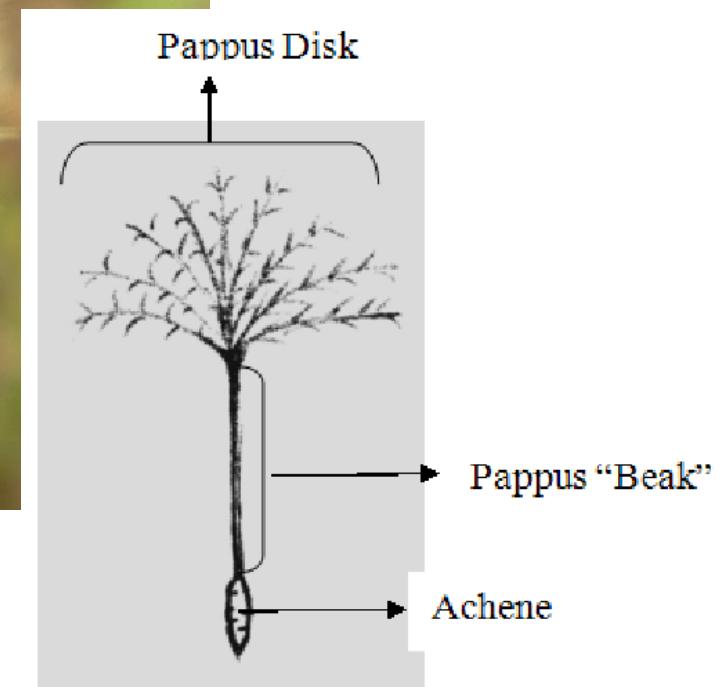
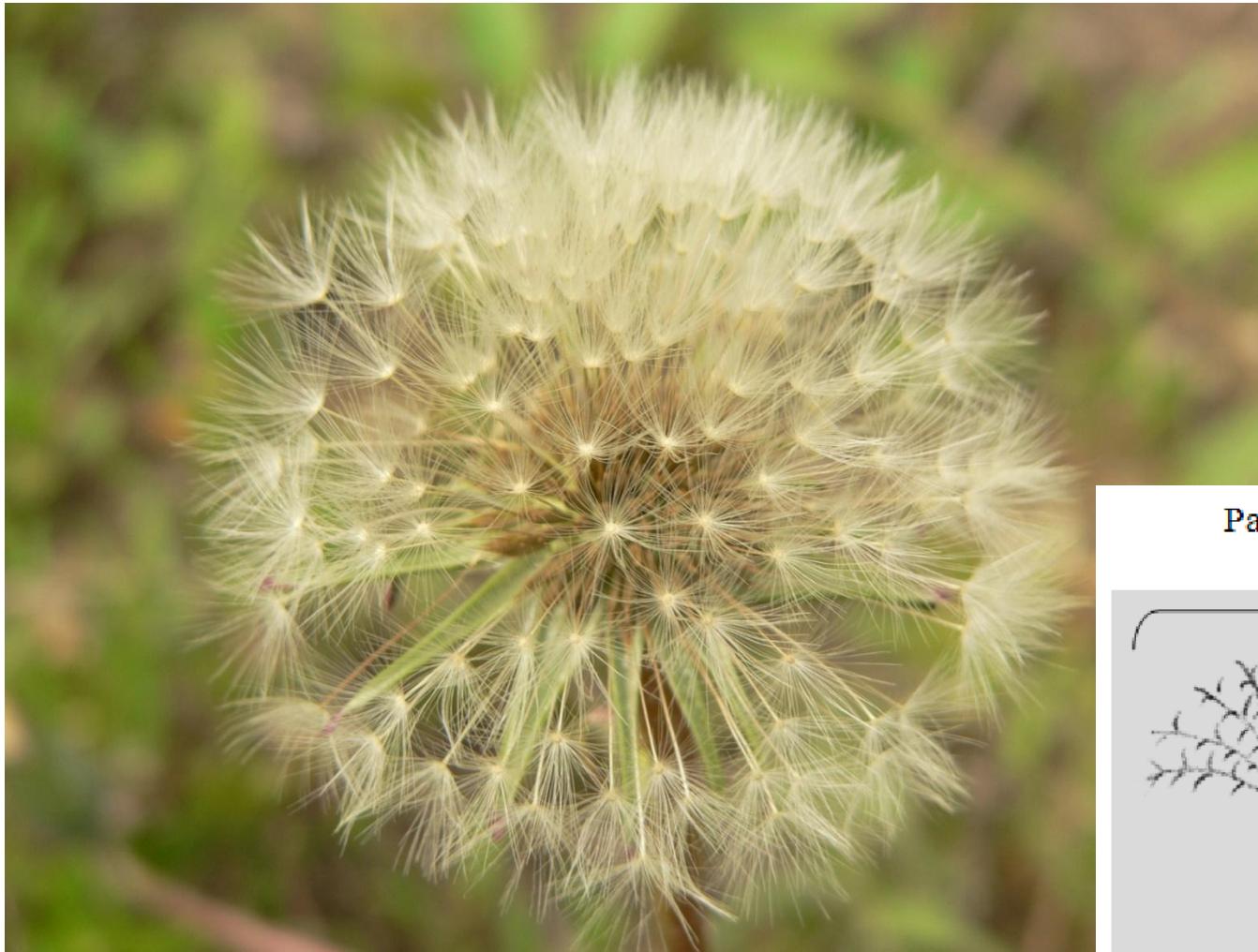


Ложноязычковые лепестки у ромашки аптечной выполняют функцию привлечения насекомых опылителей.



Helianthus annuus

Ripened achenes with pappus



The subfamily *Astroideae* or *Tubuliflorae*







Calendula officinales

Chamomilla recutita



Achillea millefolium



Tussilago farfara



Tussilago farfara



Tanacetum vulgare.



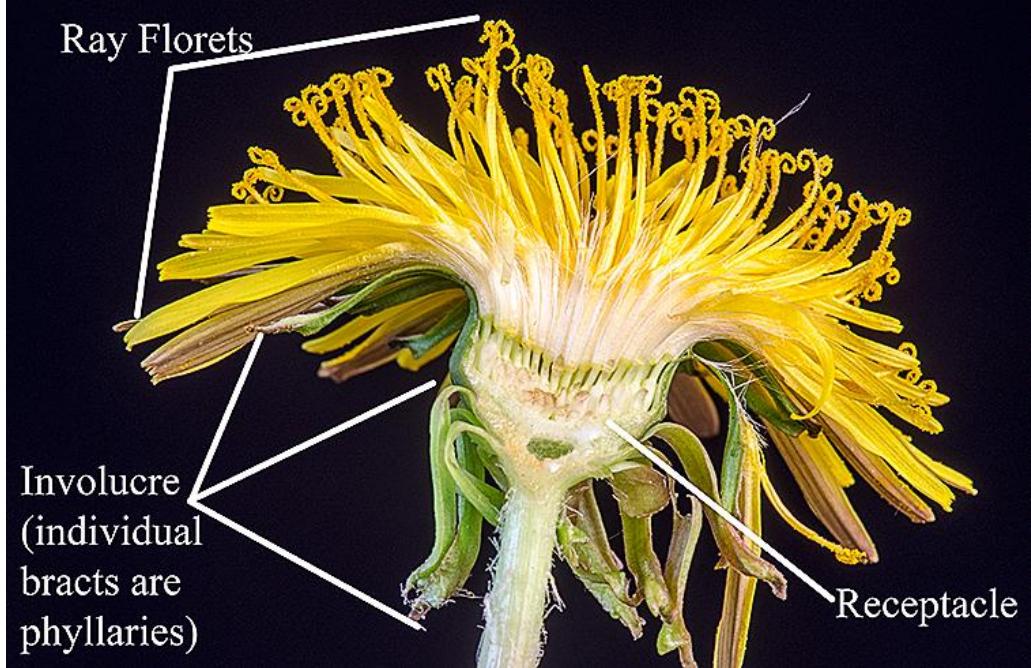
The Subfamily *Lactucoideae* or *Liguliflorae*



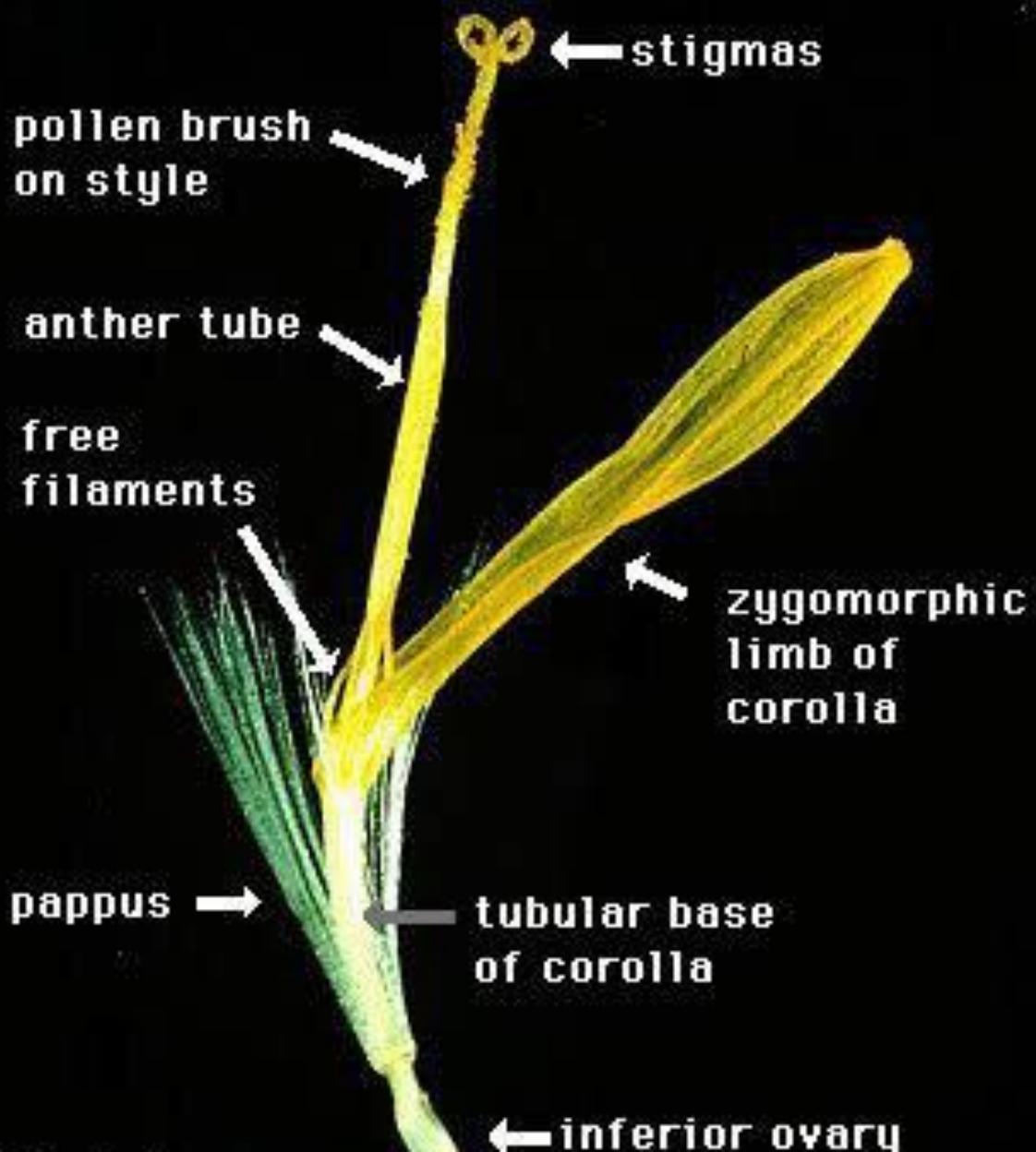


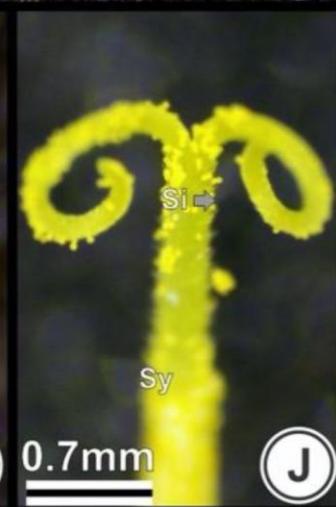
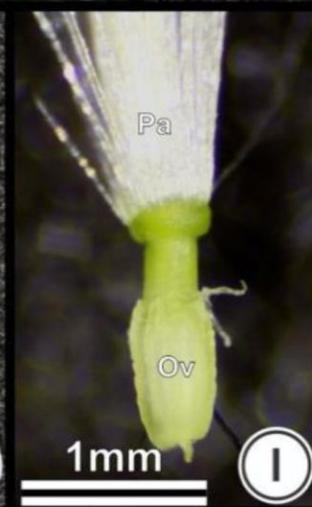
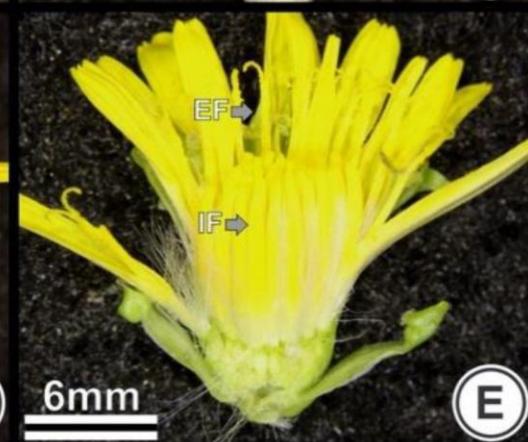
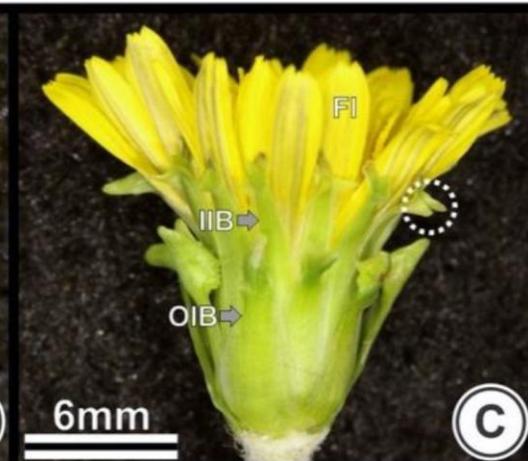
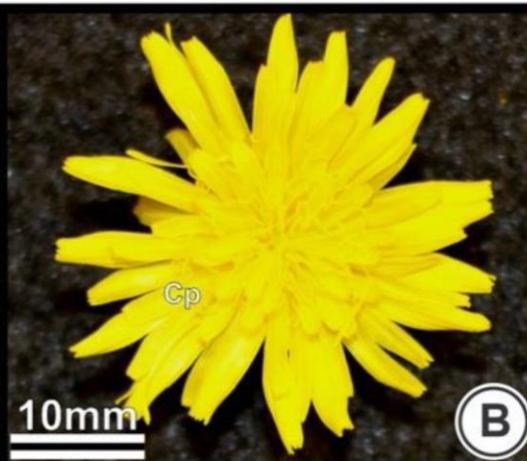
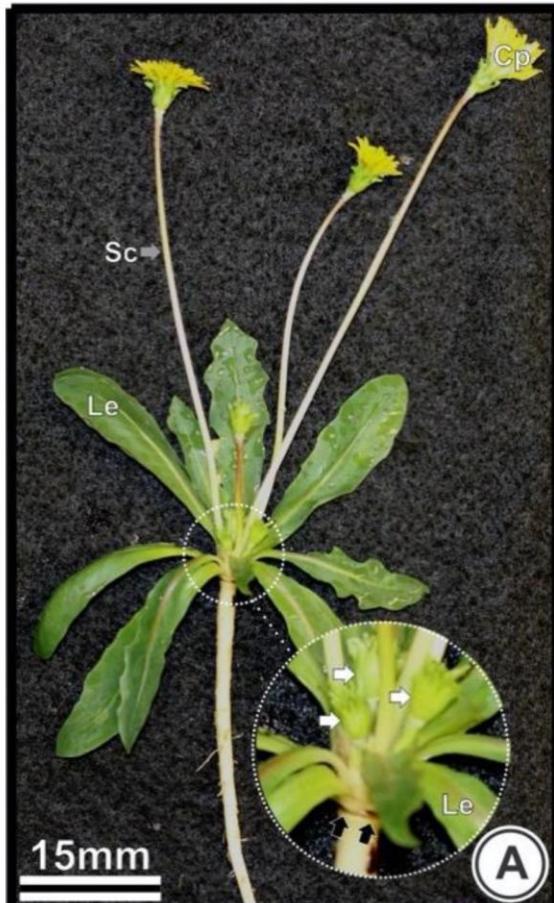
Taraxacum officinale





RAY FLOWER





Cichorium intybus



Lactuca sativa



Cynara cardunculus

