

CORSO DI BOTANICA SISTEMATICA

LEZIONE 15

INTRODUZIONE ALLE ANGIOSPERMAE



J. W. von Goethe

Herzoglich Sachsen-Weimarischen Geheimenraths

Verfuch

die Metamorphose

der Pflanzen

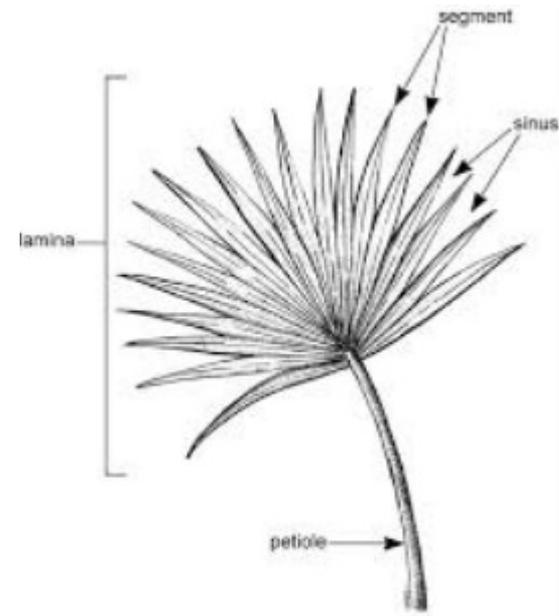
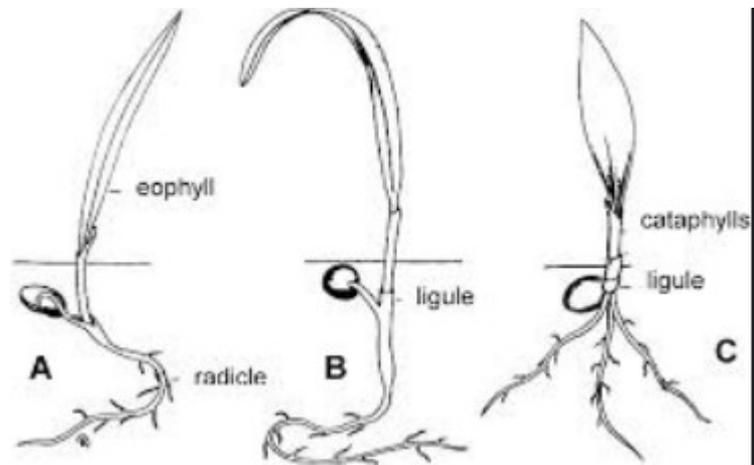
zu erklären.

Gotha,

bey Carl Wilhelm Ettinger.

1790.







Wilhelm Troll (1897–1978)

Praktische Einführung
in die
PFLANZENMORPHOLOGIE

Ein Hilfsbuch für den botanischen Unterricht
und für das Selbststudium

Von

Dr. Wilhelm Troll

o. ö. Professor der Botanik und Allgemeinen Biologie
an der Universität Mainz

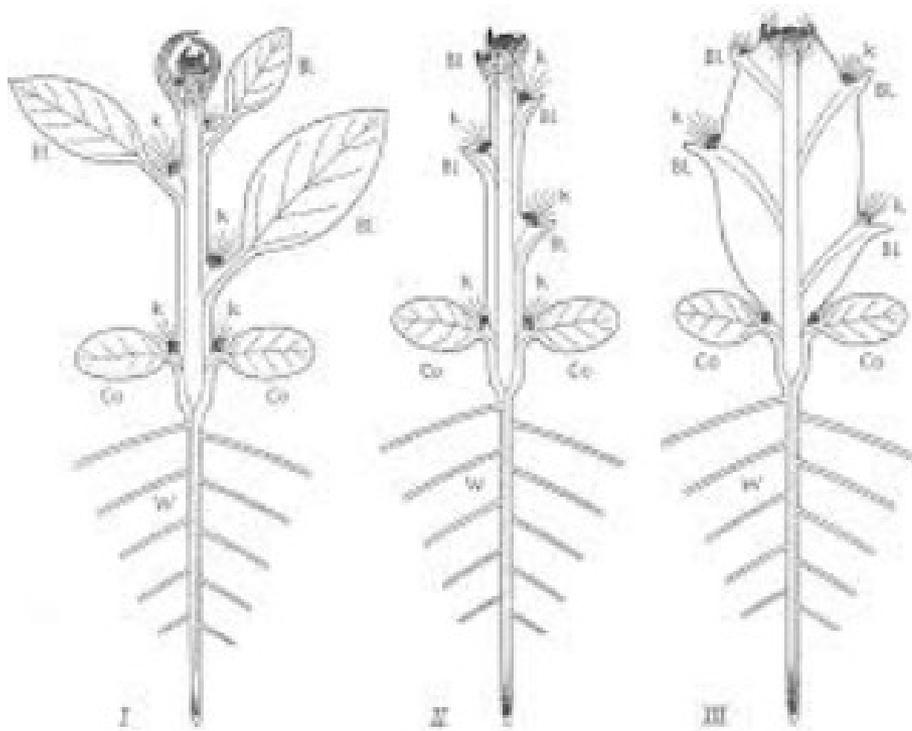
Erster Teil:

DER VEGETATIVE AUFBAU

Mit 239 Abbildungen im Text

VEB GUSTAV FISCHER VERLAG · JENA
1954

Second Reprint 1984
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D-6240 Koenigstein/W-Germany

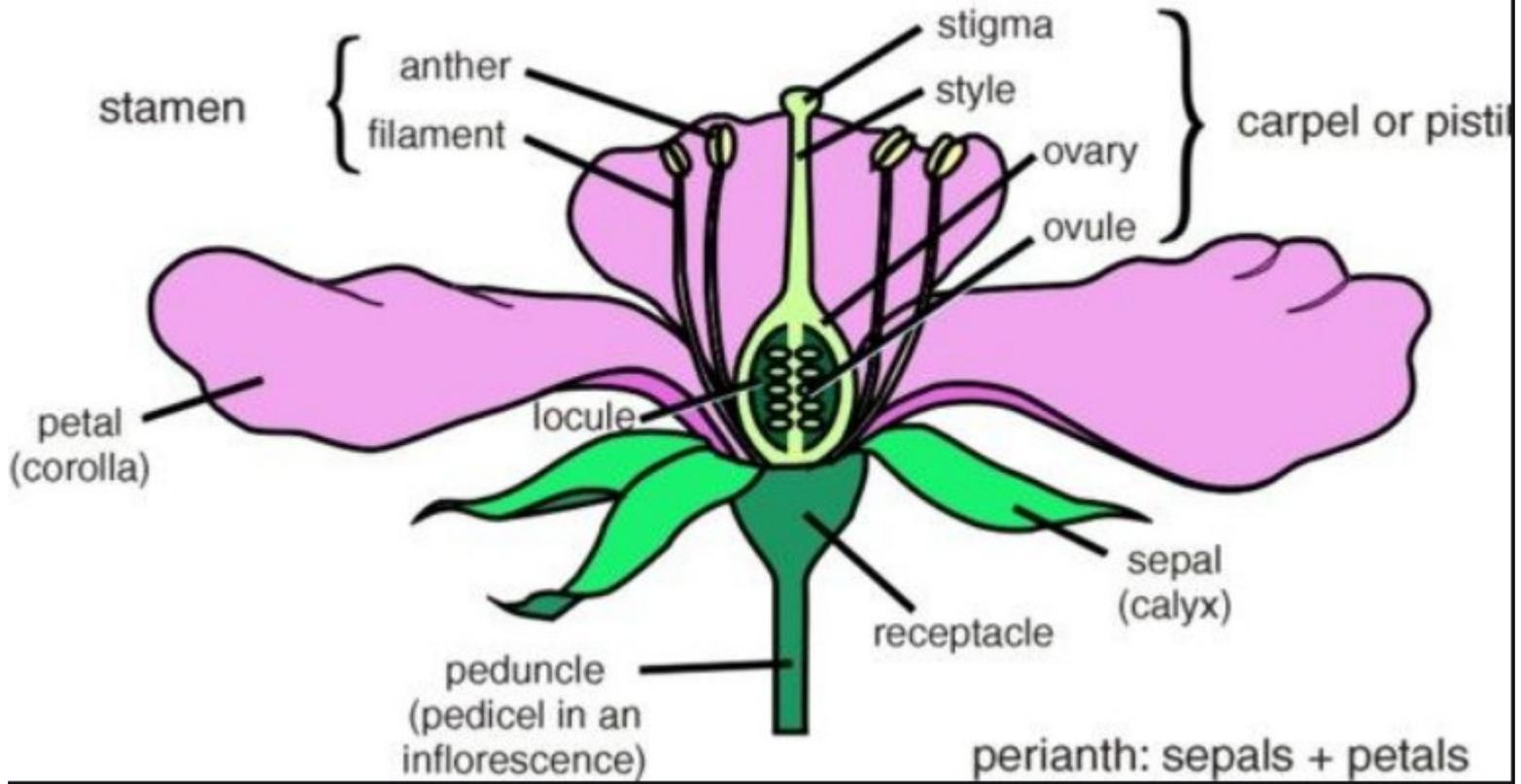


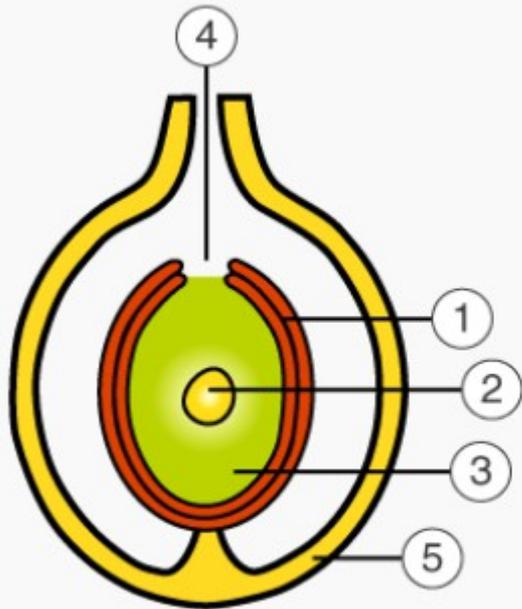
Idealistische morphologie und phylogenetik

*(zur methodik der systematischen
morphologie)*

Adolf, Naef

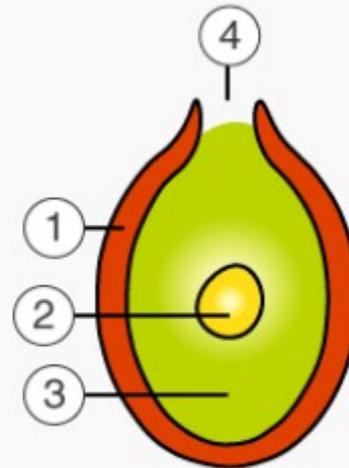
Basic Flower Structure





(a) Angiosperms

Vs.



(b) Gymnosperms

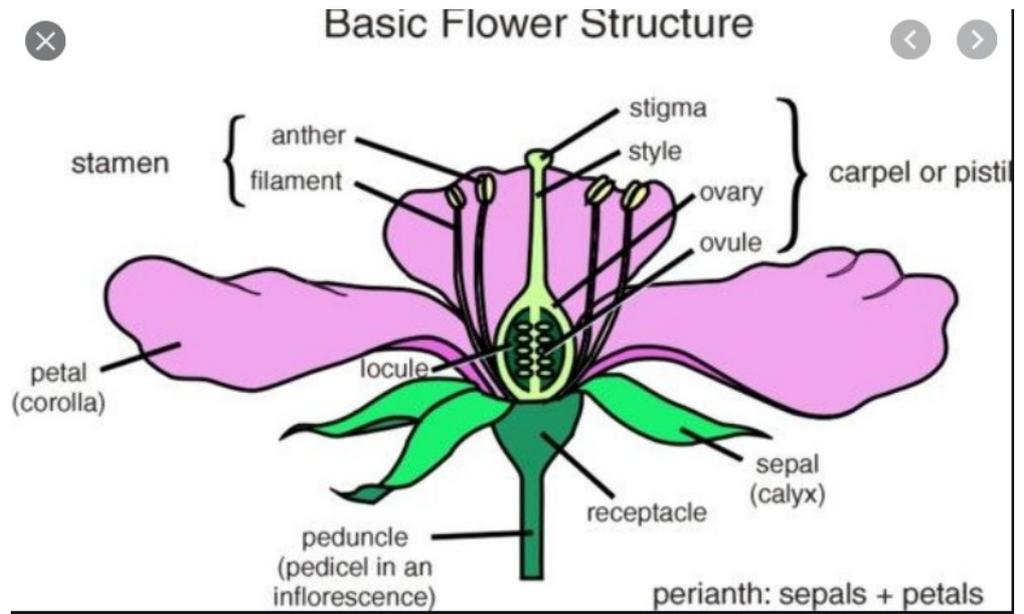
1 Integument

2 Megasporocyte

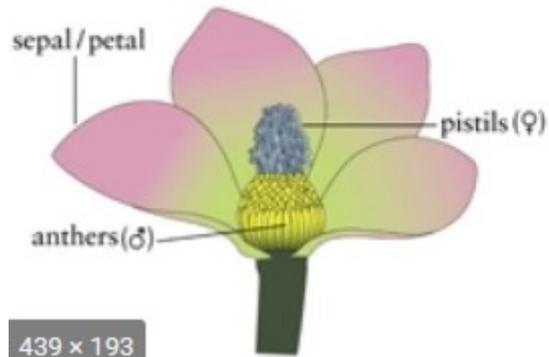
3 Nucellus

4 Micropyle

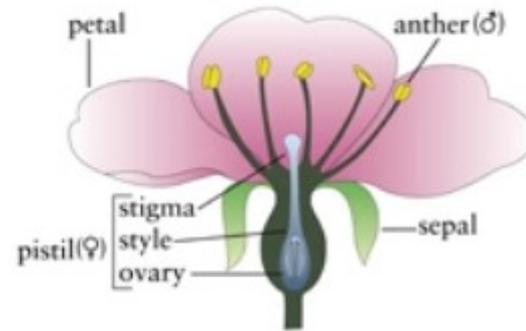
5 Ovary wall



MAGNOLIA
(primitive flower)



ROSE
(moderately evolved flower)



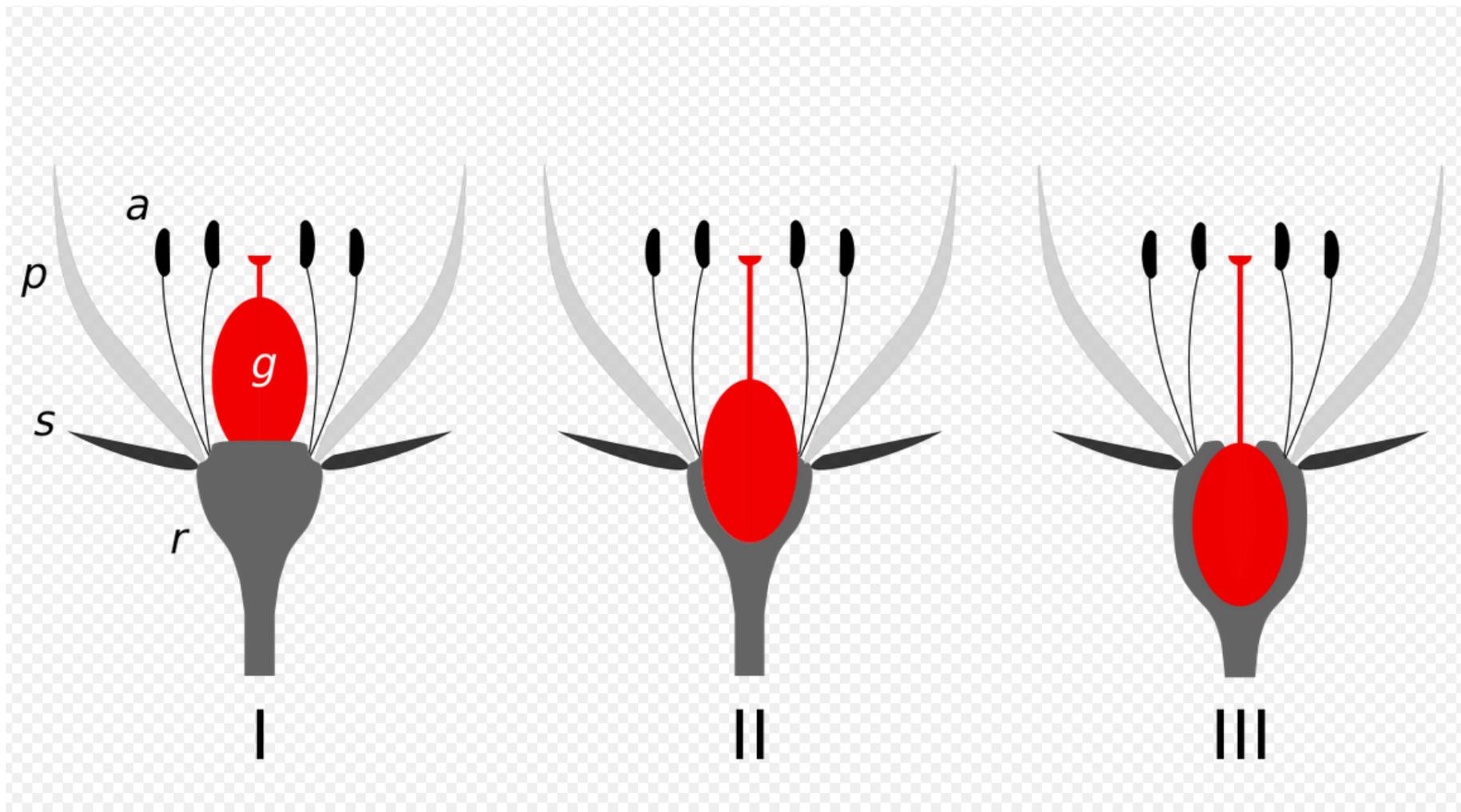
- 1) Passaggio da fiori aciclici a fiori ciclici
- 2) Fissazione del numero dei pezzi fiorali



3) Progressiva saldatura dei pezzi floreali



4) Passaggio da simmetria raggiata a simmetria bilaterale



5) Passaggio da ovario supero a ovario infero

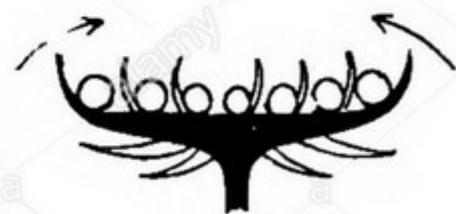
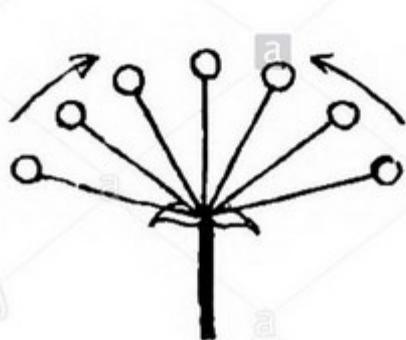
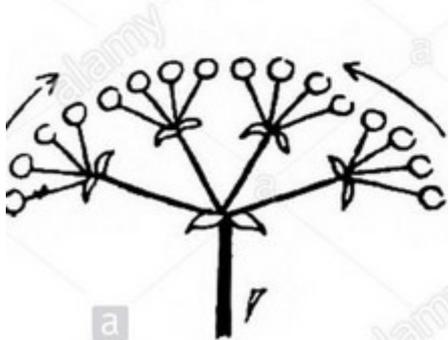
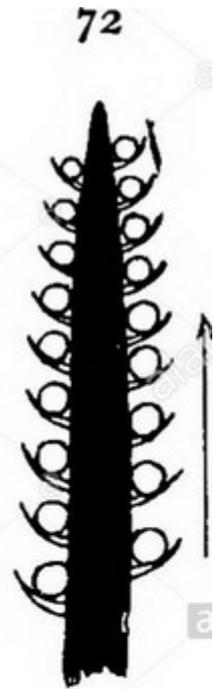
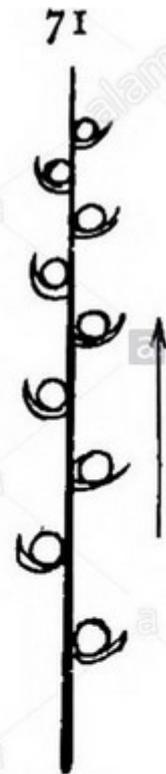
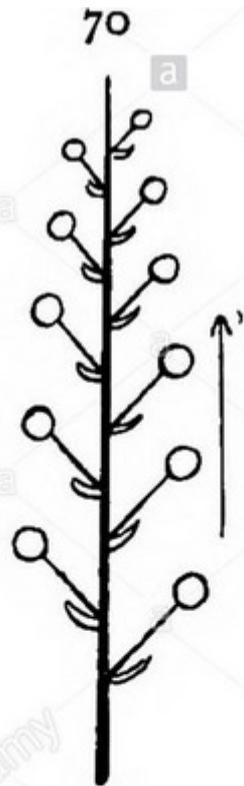
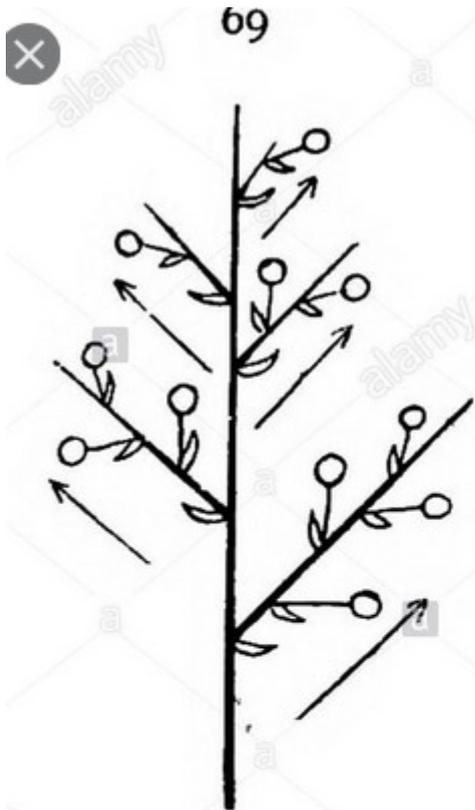


6 – Riduzione nel numero dei pezzi fiorali



Frutti di Ranunculus e di Papaver





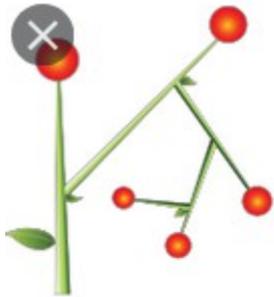


Figure 4.6: (b) diagrammatic,
(c) Monochasial Helicoid

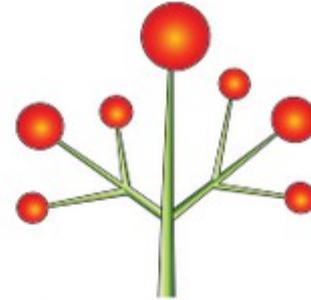


Figure 4.6: (h) diagrammatic,
(i) Compound dichasium

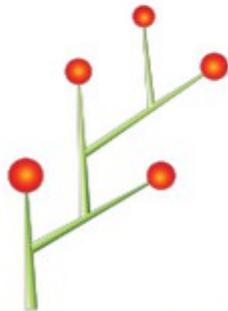


Figure 4.6: (d) diagrammatic,
(e) Monochasial Scorpioid

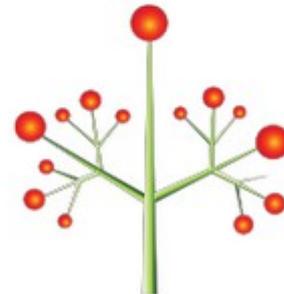
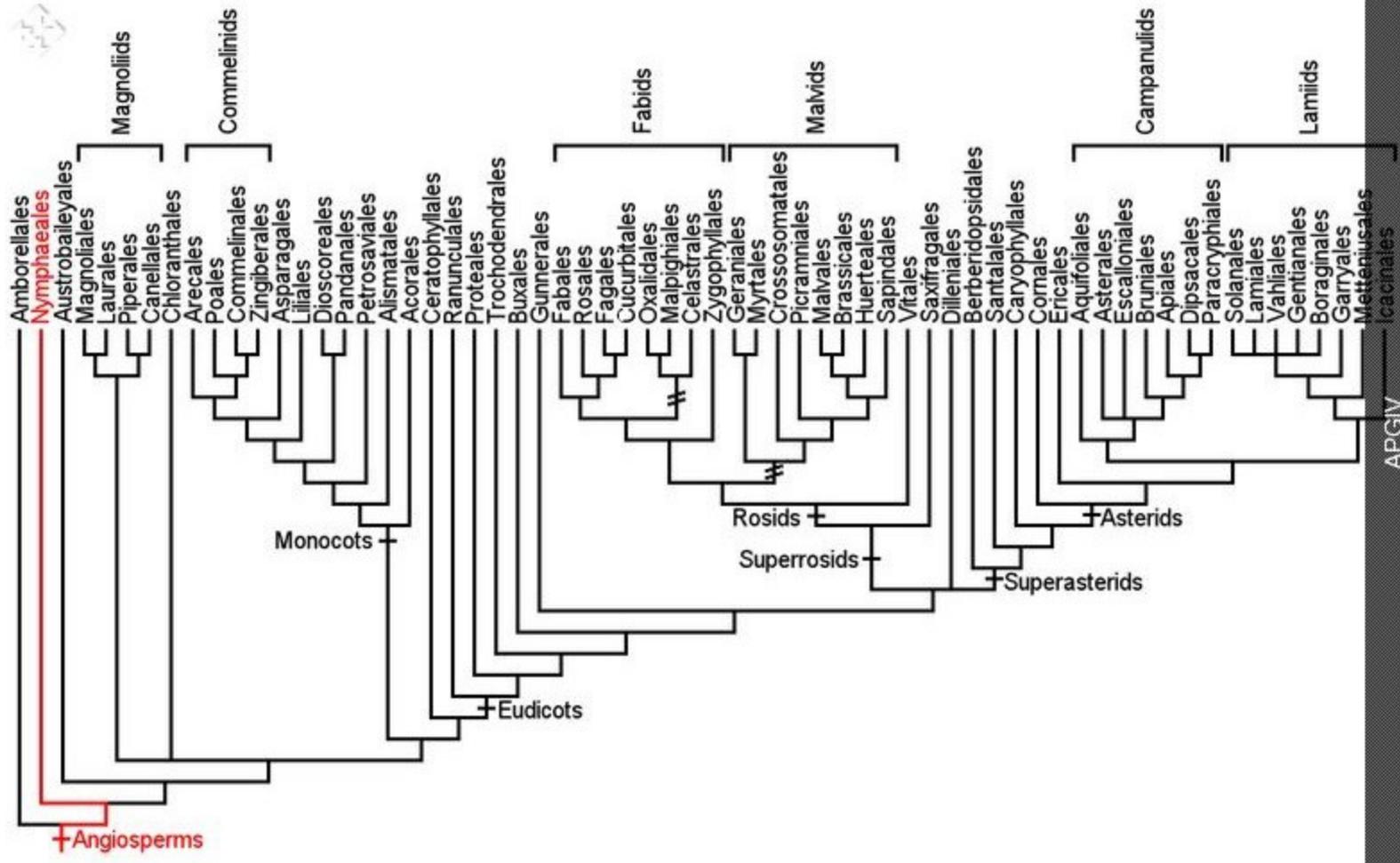


Figure 4.6: (j) diagrammatic,
(k) Polychasial cyme



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