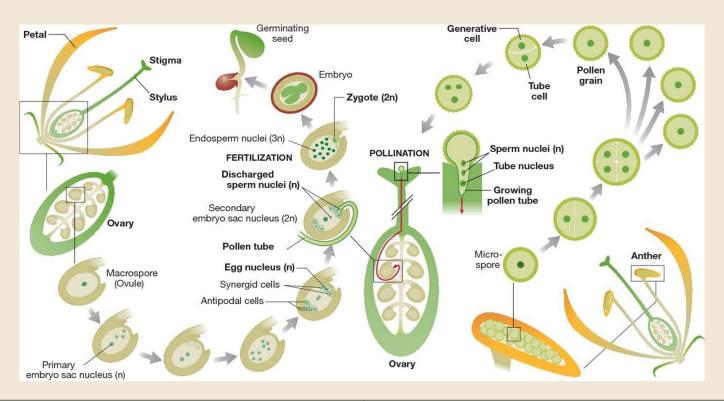
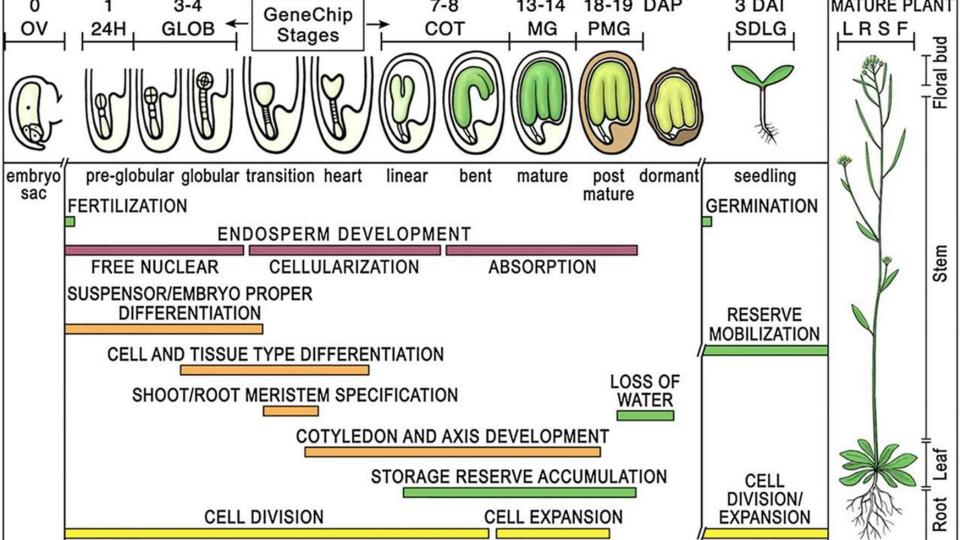


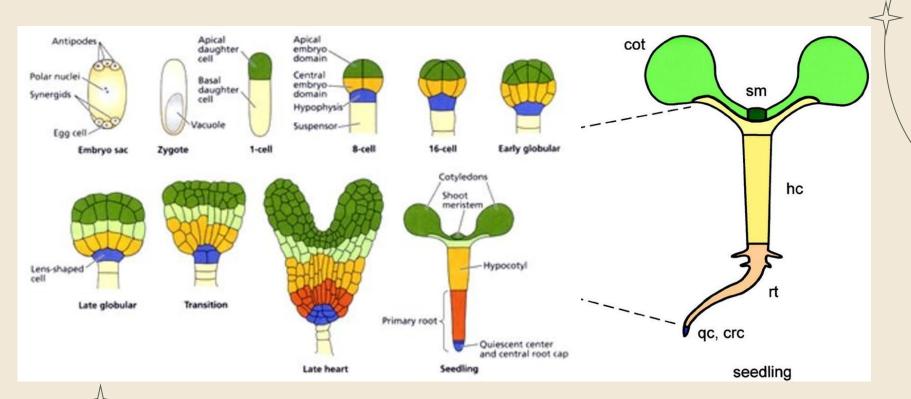
#### FERTILIZATION



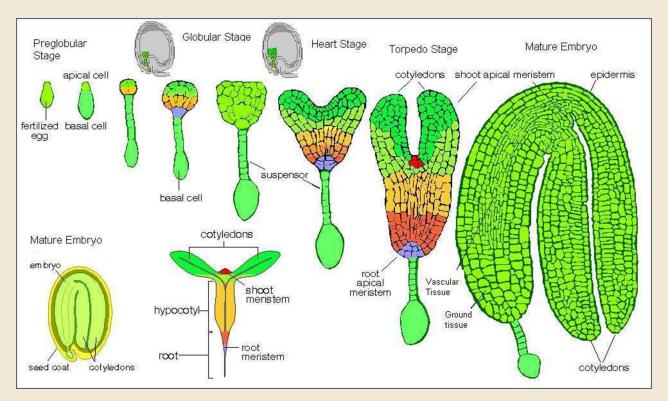




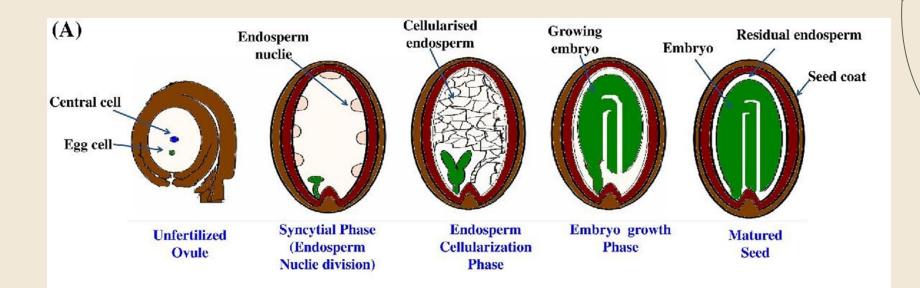
#### **EMBRIOGENESIS**



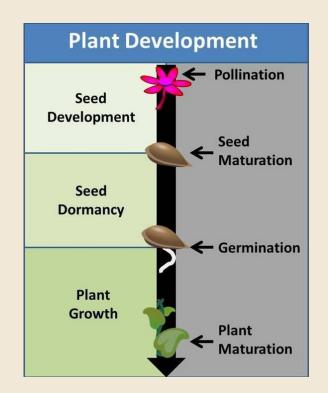
#### **EMBRIOGENESIS**



## SEED MATURATION



#### GERMINATION



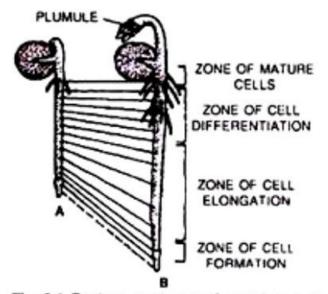


Fig. 2.1 Regions or phases of growth in root. A, marked radicle of the seedling at the beginning of experiment. B, marked radicle after 48 hours.

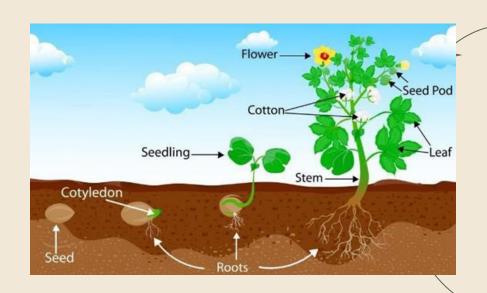


#### Growth

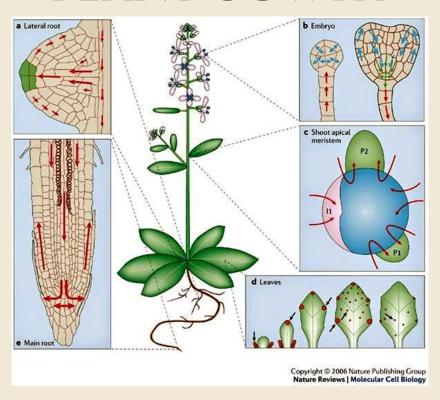
- Mitosis, proliferation
- Elongation
- Mass/volume/size increase

#### Development

- Cell specification
- o Cell differentiation
- Morphogenesis
- $\circ$  Organogenesis



#### PLANT GOWTH





#### PLANT GROWTH

#### Differentiation & Elongation



A REAL PROPERTY OF THE PROPERT



In animal cells all growth occurs due to mitosis, followed by differentiation into specialised cells.

This occurs when young and at full size, further growth is for repair and replacement



In plants, cell division and differentiation occurs in the growing tips of roots and shoots (meristems).



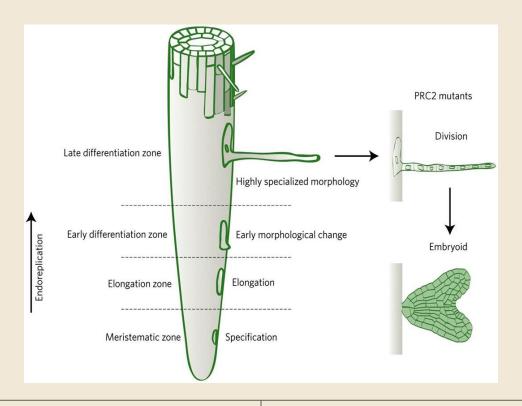
Growth in height is continuo u s a n di

r d



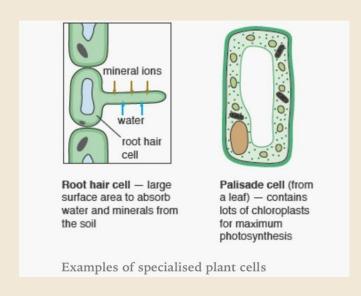
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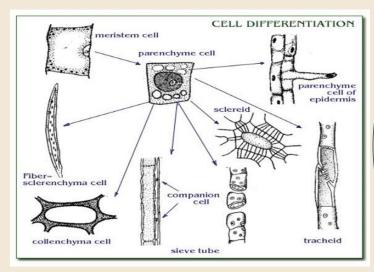
## PLANT GROWTH



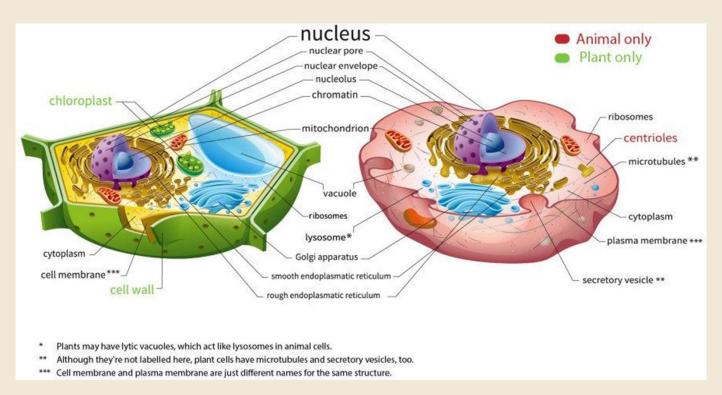
#### SPECIALIZATION - DIFFERENTIATION

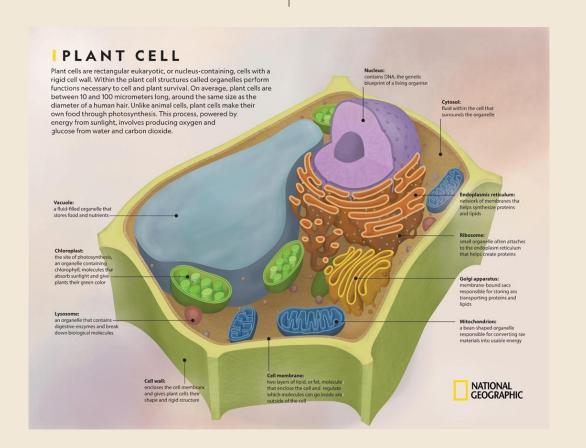
• Cells change its structure or shape to carry a specific function.



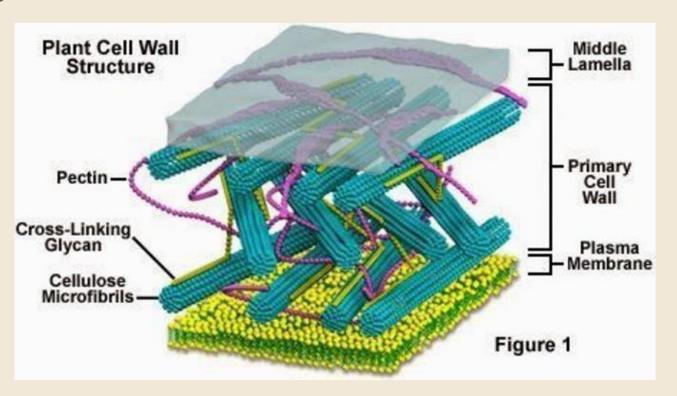


## SEL TUMBUHN VS SEL HEWAN





#### STRUKTUR DINDING SEL TUMBUHAN





# THANKS

Do you have any questions?

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