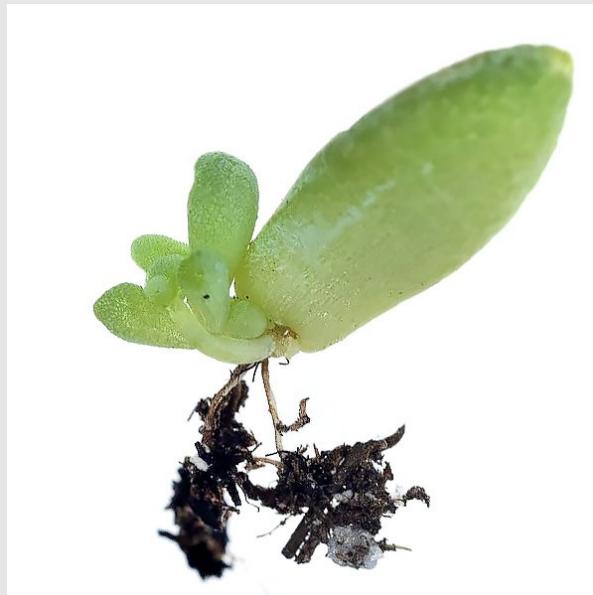


# Asexual Plant Propagation



By Judy Boyd-Persen  
Senior Master Gardener

# Asexual Reproduction

- Produces an exact genetic copy or clone of the parent plant
- For some species it is easier and faster
- It may be the only way to perpetuate some cultivars
- It bypasses juvenile characteristics of some species
- Major methods include cuttings, layering, division, separation, grafting and budding, and tissue culture

# Cuttings



# Coleus Cuttings





# Stem tip cuttings



3. Plug the heat into a 120 volt power source.  
4. This unit is designed to raise rooting area  
temperatures approximately 10 - 25°F above air  
temp. For more precise temperature maintenance,  
we recommend a temperature controller.



# Hydrangea Stem Tip Cutting



# Medial Stem Cuttings



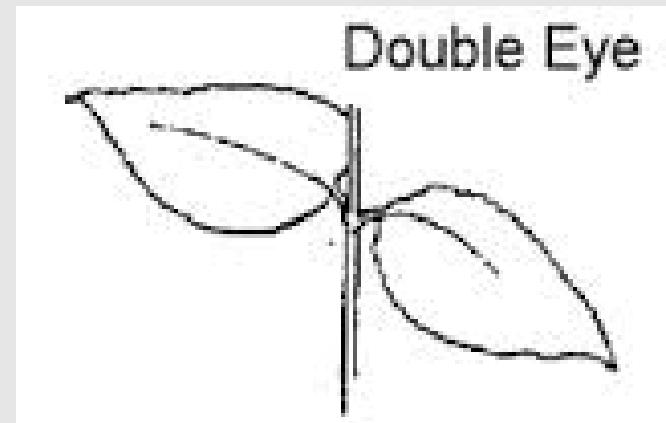
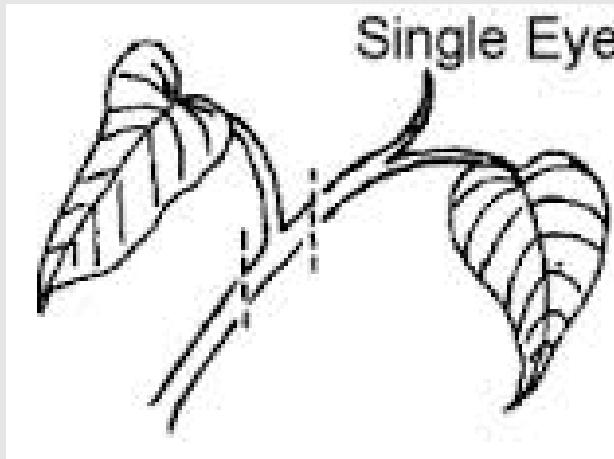
# Cane Cuttings



# Rooting Cane



# Types of Stem Cuttings



## Heel Cutting





# Heel Cuttings





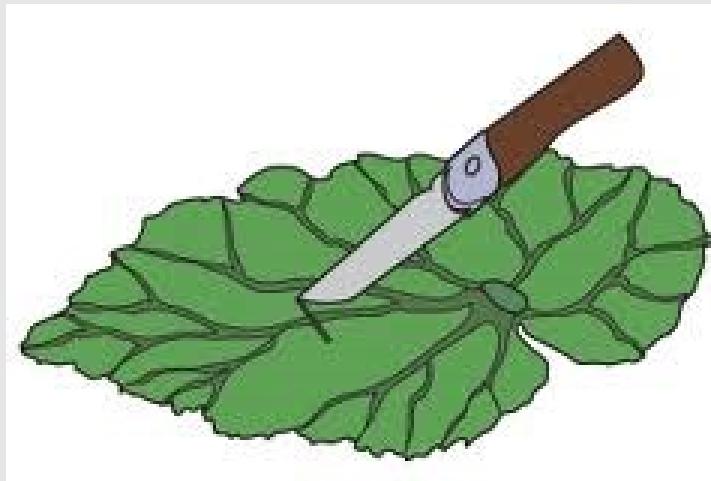
# Whole Leaf Cuttings



# Whole Leaf Cuttings without Petiole



# Split Vein Cuttings



# Split Vein Cutting





# Split Leaf Cutting



# Split Leaf Cuttings



# Split Leaf of Sanseveria



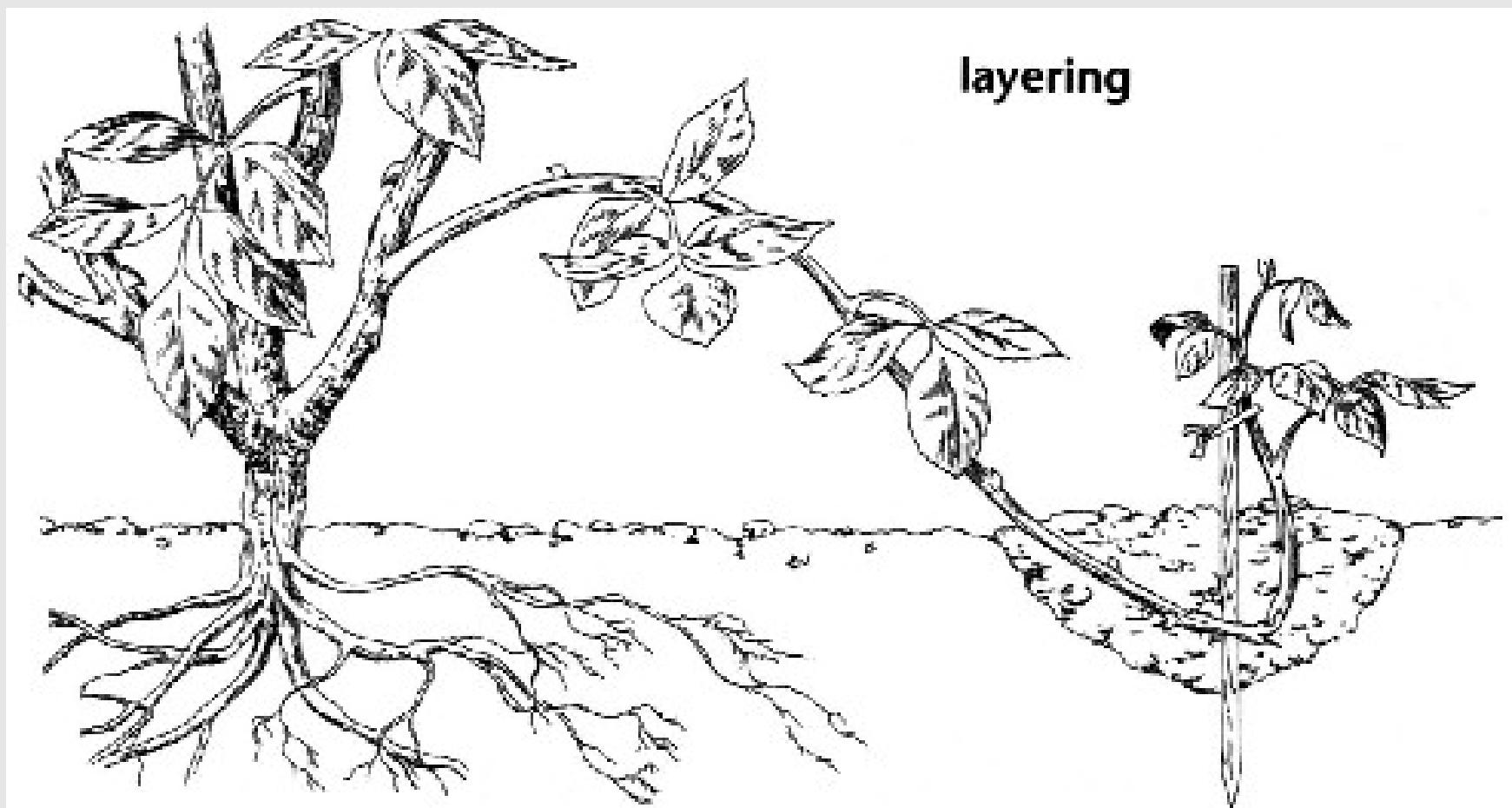
# Small Root Cuttings



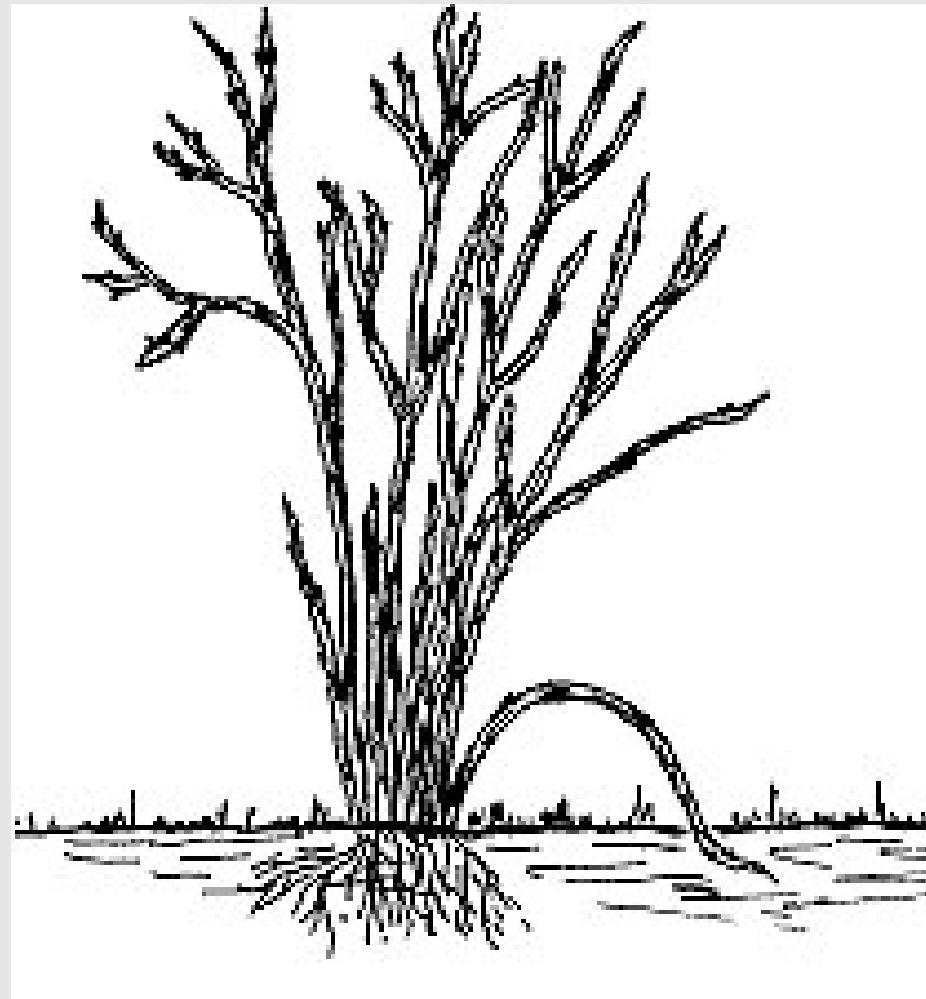
# Large Root Cuttings



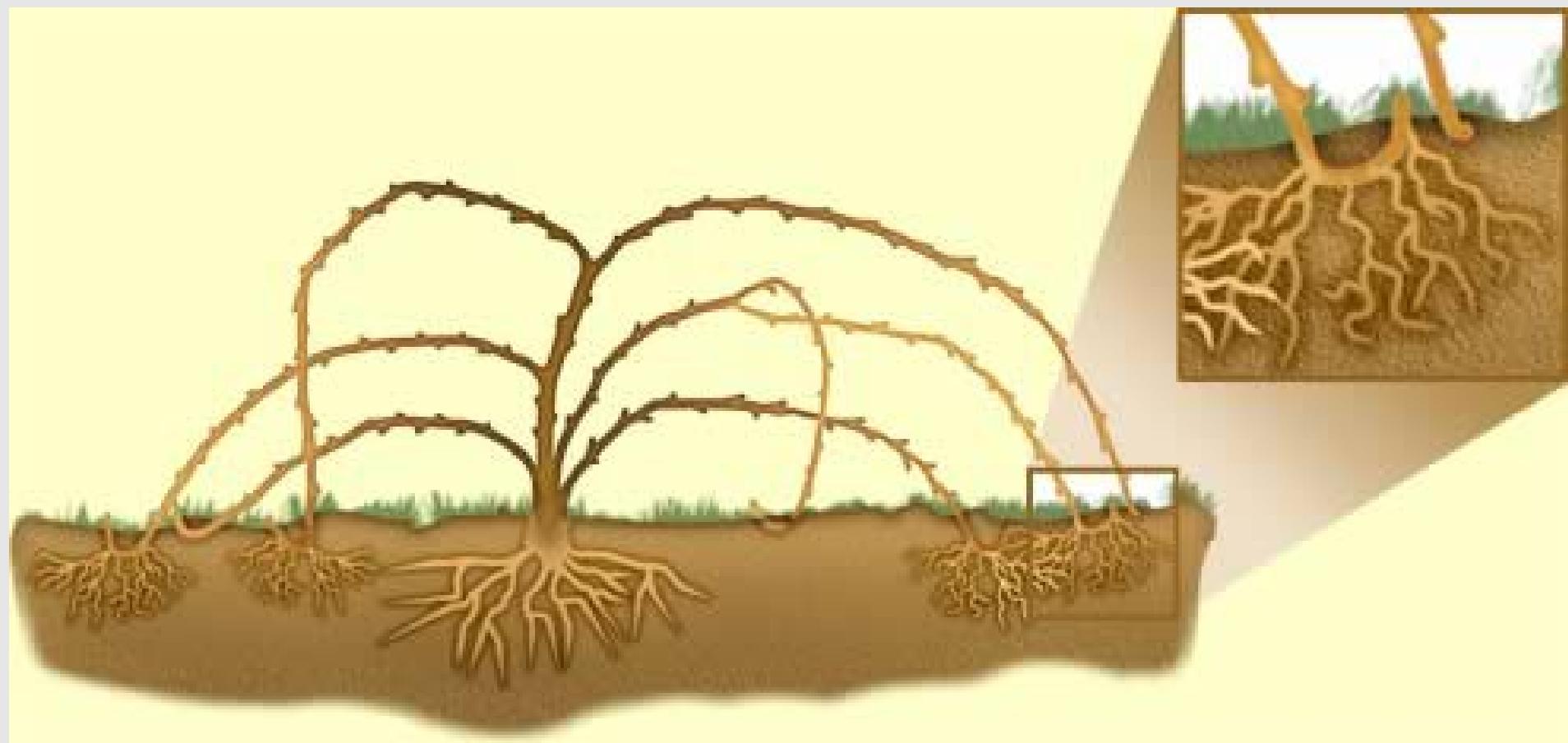
# Simple Layering



# Tip Layering



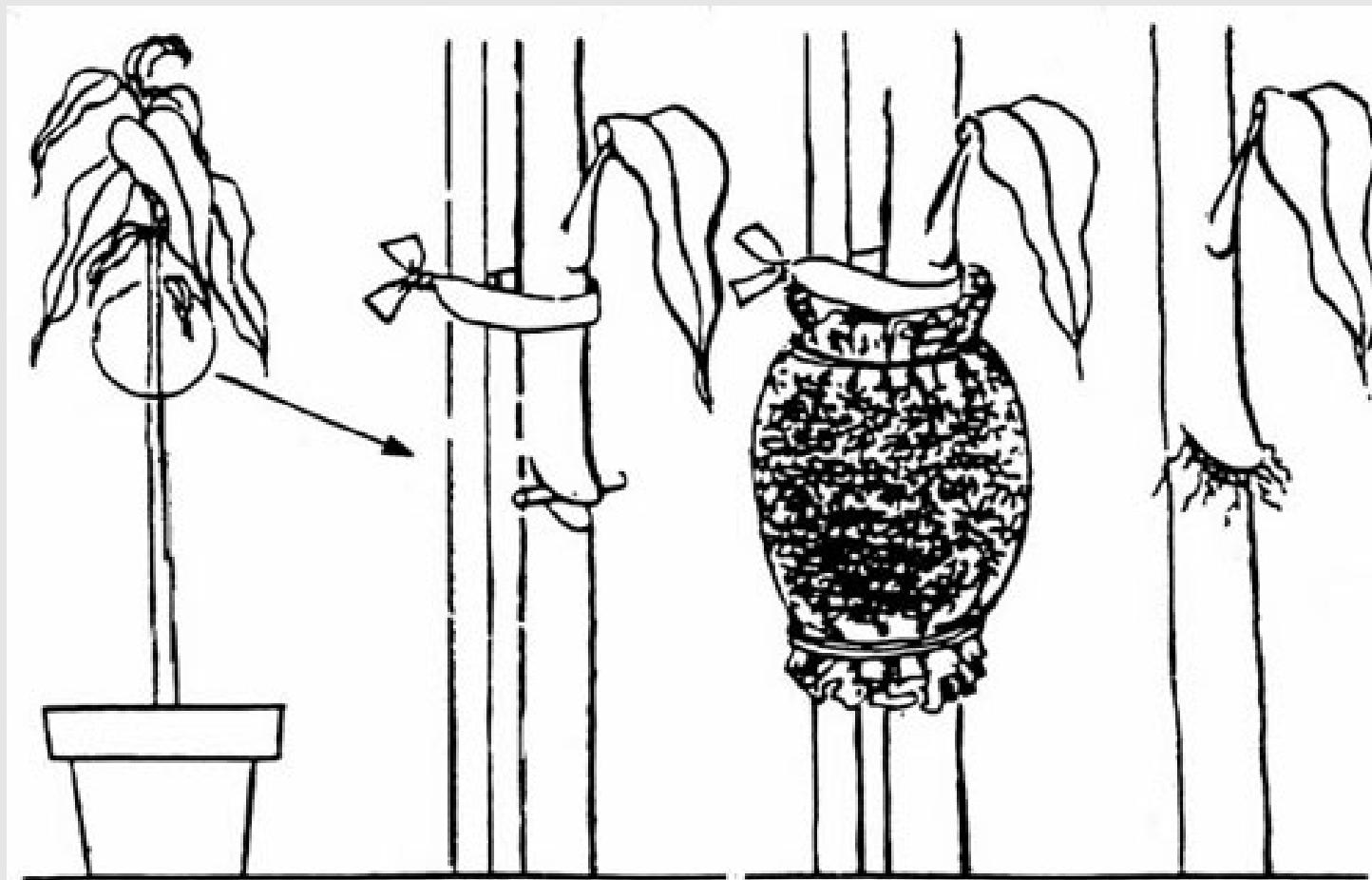
# Compound Layering



# Mound Layering



# Air Layering







Plantlets grow along the leaves

# Runners or Stolons





# Offsets

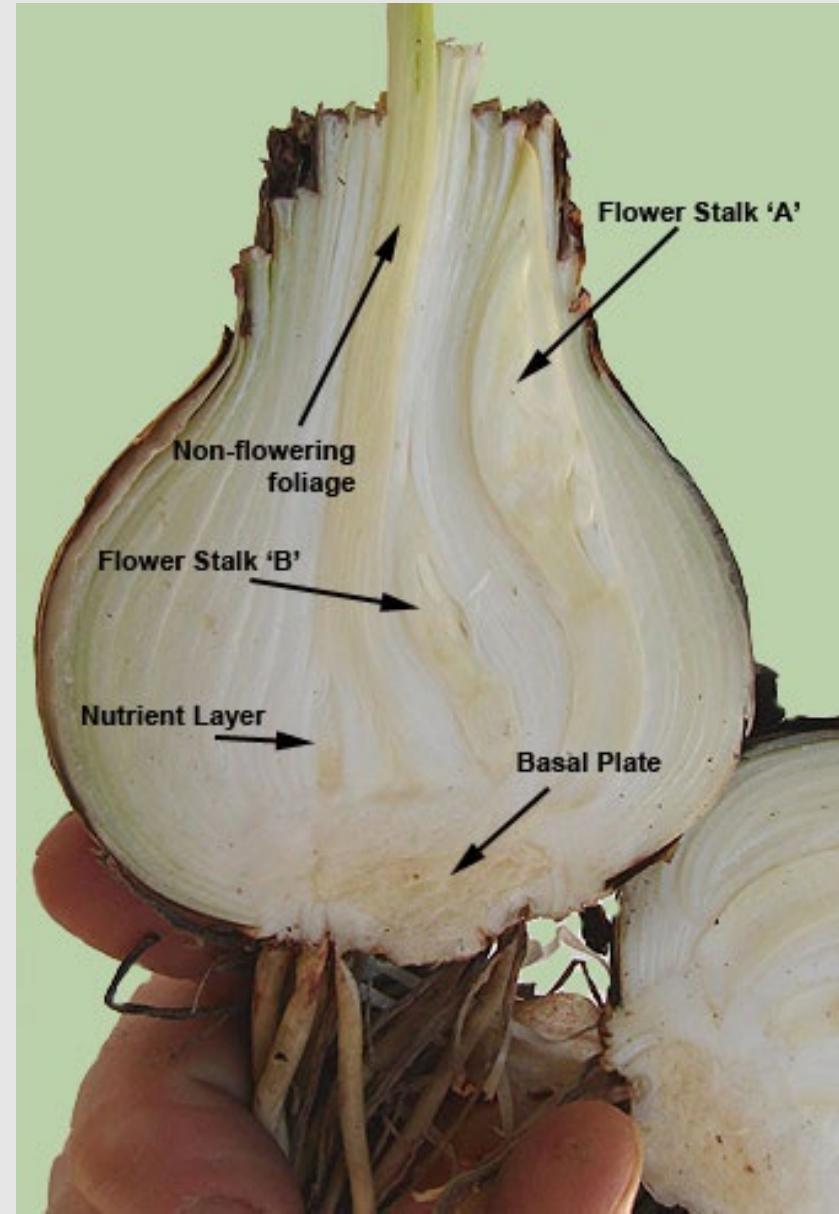


# Tulip Bulbs





# Cut Amaryllis Bulb



# Garlic Bulbs





# Cleft Graft



# Multiple Cleft Grafts

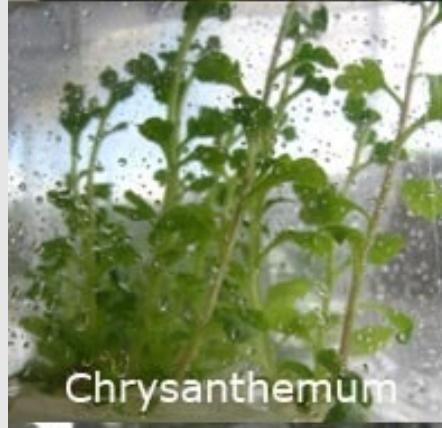
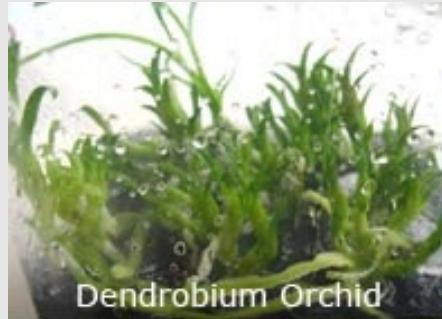


# Tongue or Whip Graft





# Tissue Culture













# References

- Plant Propagation by American Horticultural Society, Editor Alan Toogood
- Making More Plants by Ken Druse
- Plant Parenting by Leslie Hallack
- Encyclopedia of Gardening Techniques, American Horticultural Society

# Questions?