

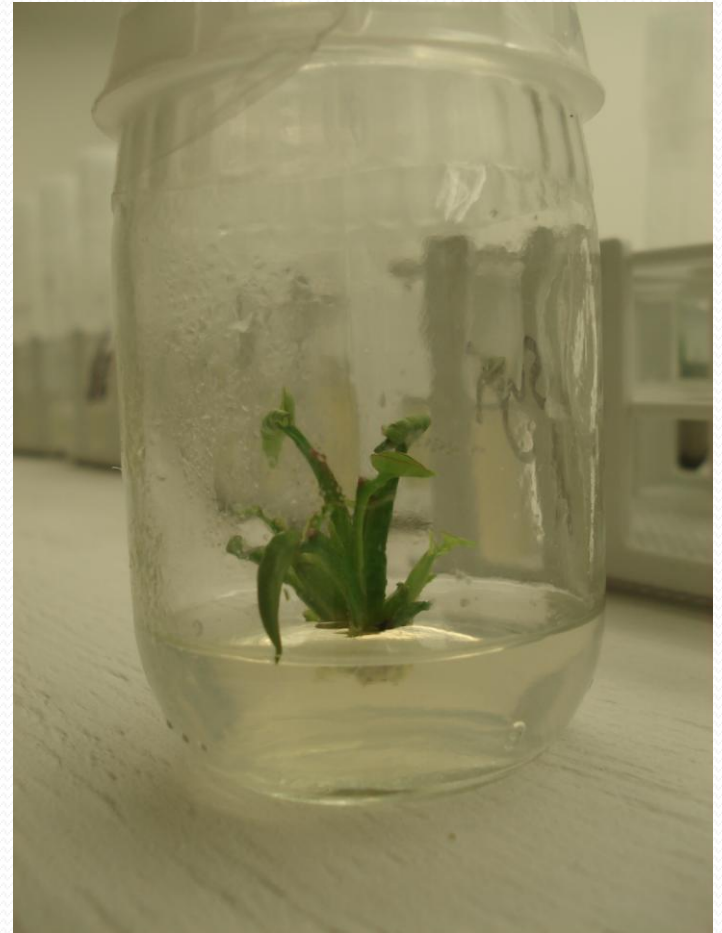
# Technology in Agriculture

Plant Tissue Culture  
and  
Hydroponics

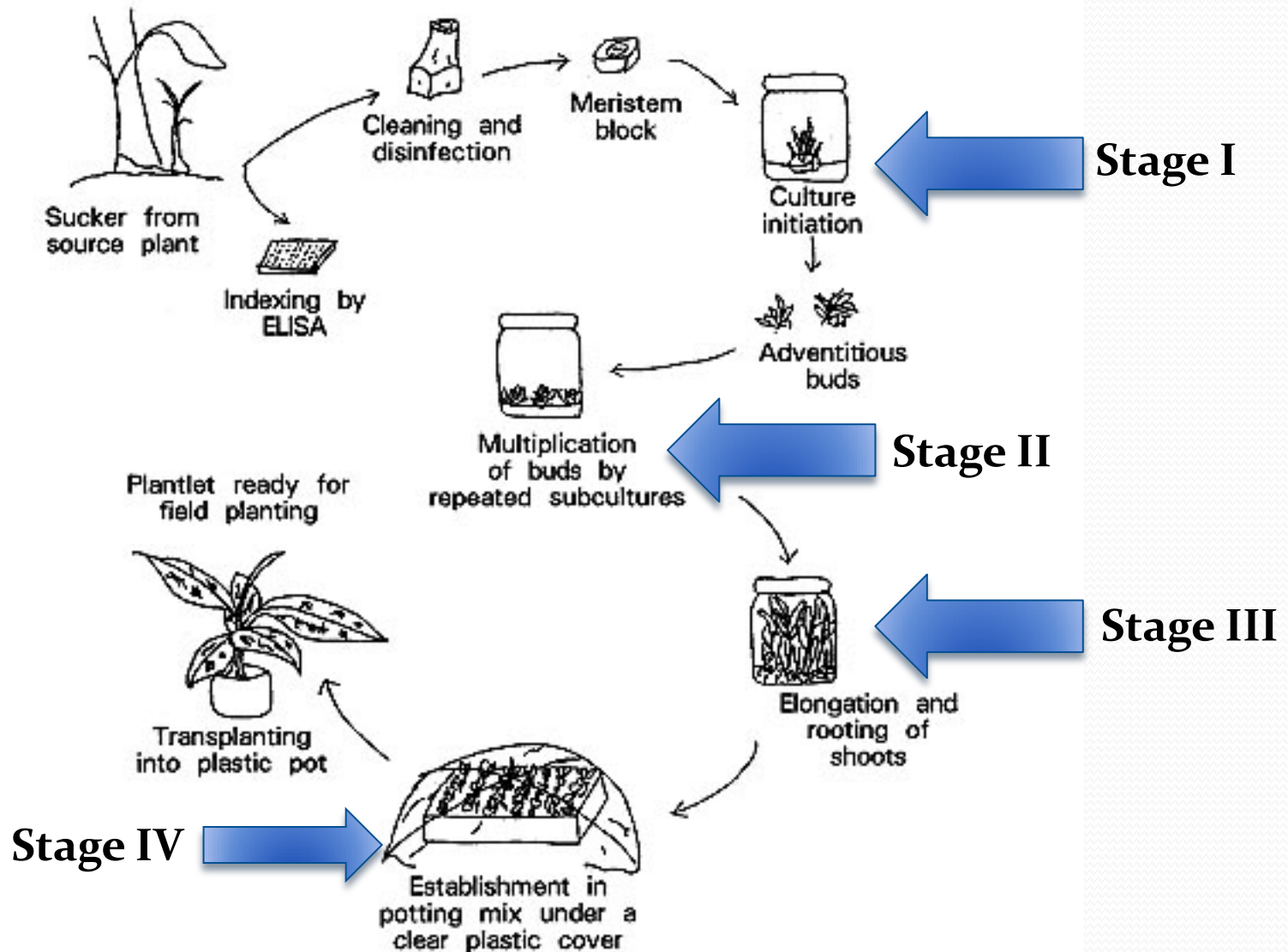
By Selima Hauber, PhD  
and Timothy Hauber

# Plant Tissue Culture

- Micropropagation or *in vitro* propagation
- Rapid
- Vegetative multiplication
- Sterile
  - Container
  - Nutrient media
- Controlled environment
  - Artificial light
  - Temperature



# Plant Tissue Culture – The Stages



# Advantages

- Large numbers of identical plants in short period of time
- Disease free
- Year round production
- Long term storage

# Equipment and Materials



# Home Tissue Culture

<http://www.kitchenculturekit.com/kit.htm>



# Micropropagation at LTP

- Native plants
  - Sea oats
  - Orchids
- Fruit for commercial production
  - Bananas
  - Plantains
  - Strawberries
- Ornamentals
  - Purple fountain grass
  - Syngonium
  - Spathiphyllum

