Analysis and Treatment of an Ipu Heke

UCLA








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ANAGPIC

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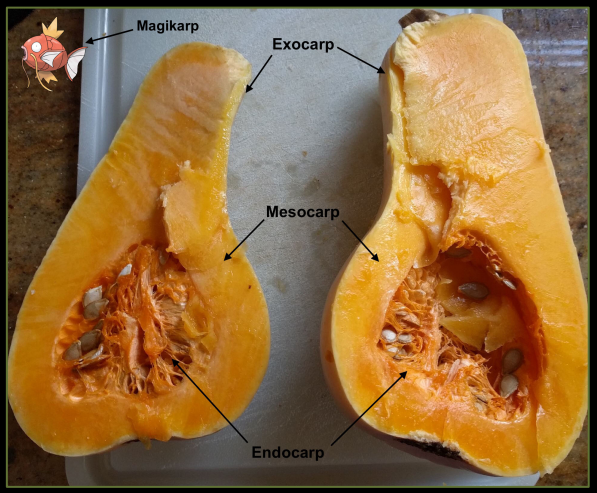
Structure of Gourd

Lagenaria siceraria, or bottle gourd

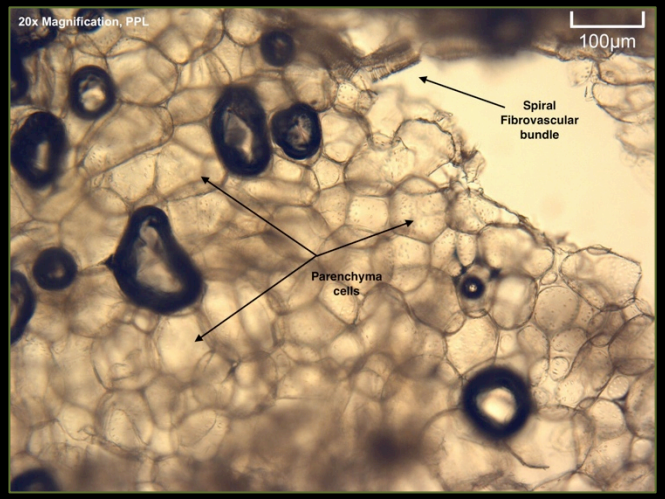
Exocarp, Mesocarp, and Endocarp

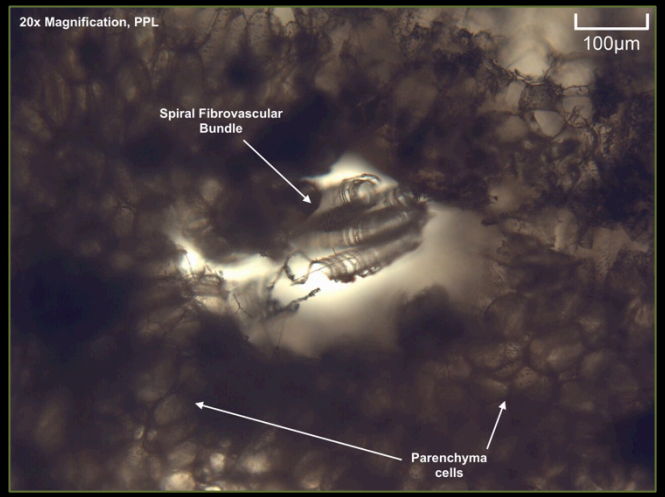
- Mesocarp is scraped out and removed



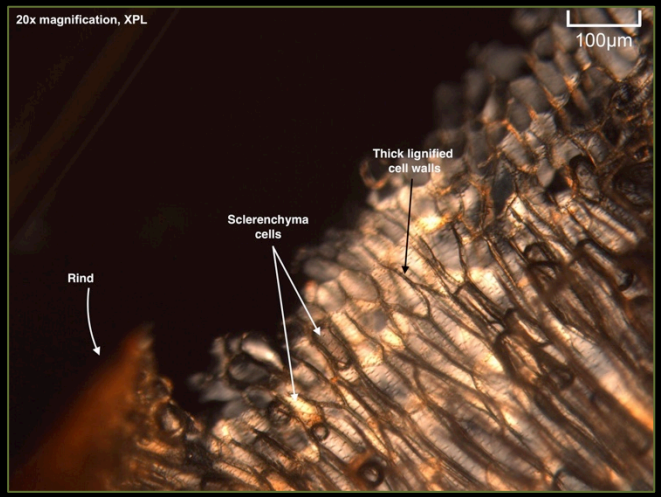
Exocarp:

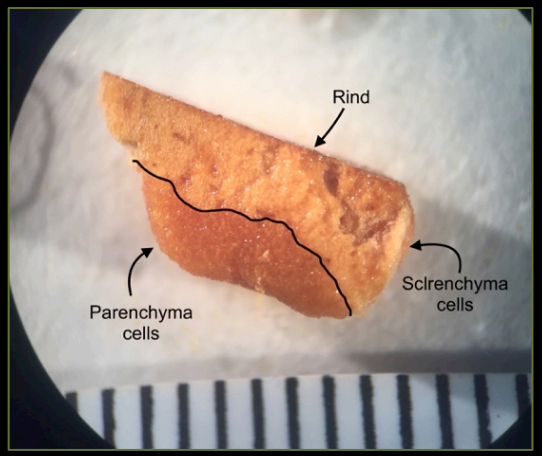
- parenchyma cells
- sclerenchyma cells
- spiral fibrovascular bundles





- Parenchyma store nutrients
- Sclerenchyma provide support
- Fibrovascular bundles transport nutrients





Treatment

- Treatment goals:
  - -Remove repair adhesive
  - -Realign
  - -Mend breaks
  - -Create suitable housing
- Steps:
  - -Solubility test of adhesive, gourd substrate, exterior coating and decoration
  - -Remove adhesive
  - -Realign breaks with humidity chamber
  - -Reintroduce adhesive (3:1 wheat starch paste: methylcellulose)
  - -Housing

Before Treatment

After Treatment

Solubility Test

Housing

Removing the Adhesive

Humidification

Introduction of New Adhesive