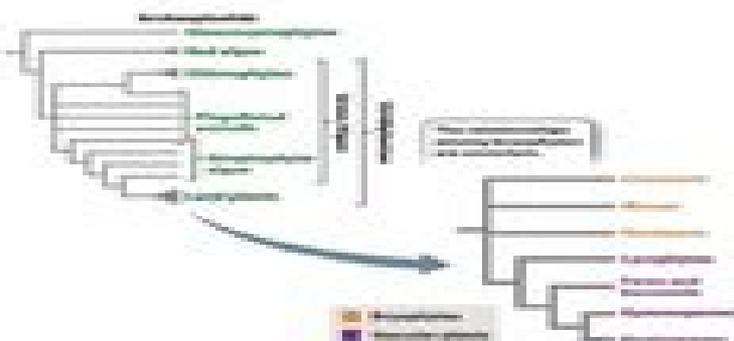


## Unit 2

## Chapter 27: Plant Form, Function and Evolutionary History

## Core Concepts

- The evolution of land plants from aquatic ancestors introduced a major challenge for photosynthesis: How to get enough CO<sub>2</sub> without drying out.
- Leaves have a waxy cuticle and stomata, both are important in regulating carbon dioxide **gain** and water **loss**.
- Xylem allows vascular plants to replace water evaporated from leaves with water pulled from the soil.
  - Xylem - flowing water up because of hydrogen bonds & transpiration
- Phloem transports carbohydrates to the non-photosynthetic portions of the plant for use in growth and respiration.
- Roots expend energy to obtain nutrients from the soil.



- What do they all contain?
  - Vascular tissue and "true leaves"

- Angiosperms have the most diversity
- Liverworts, moss & hornworts are NOT VASCULAR Bryophytes
  - They will never be big
- Lycophytes, Ferns & Horsetails, Gymnosperms, & Angiosperms contains VASCULAR TISSUE
- They have to move stuff in large quantities which requires what?
  - Bulk Flow

## Four Major Groups of Vascular Plants

- Lycophytes
- Ferns & Horsetails
- Gymnosperms and Angiosperms

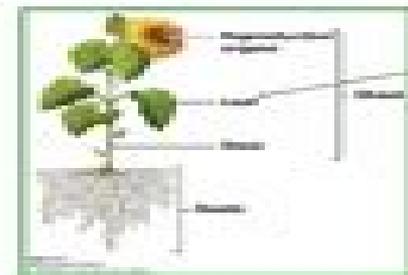
## Plant Structure: The Leaf

## What is transpiration?

- The loss of water

## Leaf

- Where gas exchange between environment and plant occurs
- Photosynthesis



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**Lingjun Ying**



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