



# BOTANY

## • Study of the Plant Kingdom... Our Essential Partners in Life •

### INTRODUCTION

**What's so special about plants?**

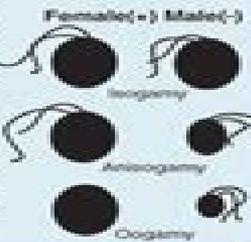
- They are photosynthetic, using the ultimate energy source, the sun, to make their own food. For this reason, they are called **autotrophs**. Plants power most ecosystems and are thus essential to life on Earth.

**Have you thanked a plant today?**

### GAMETE EVOLUTION

Plants have developed different strategies for gamete production and fusion.

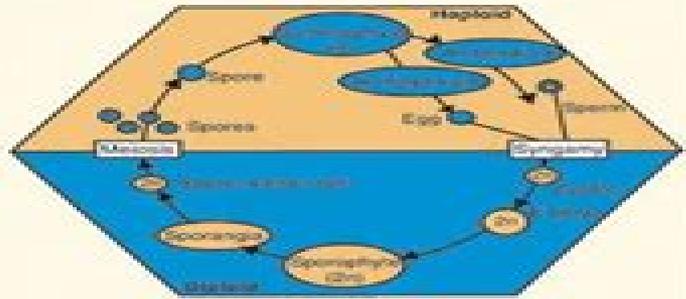
- Isogamy** - Gametes are equally motile and of similar size.
- Anisogamy** - One gamete is large and less motile, with nutrient reserves, while the other is smaller and more motile, with few nutrient reserves.
- Oogamy** - One gamete is non-motile and large, with large nutrient reserves (egg), while the other is smaller and motile (sperm) and must locate the larger gamete.



### ALTERNATION OF GENERATIONS

A unique evolutionary strategy for reproduction where a single plant organism has two phases to its life history.

- Gametophyte** - Haploid, multicelled individual produces gametes via mitosis. Dominant form in lower plants.
- Sporophyte** - Diploid, multicelled individual from gamete fusion (zygote), produce haploid spores via meiosis for dispersal; spores germinate via mitosis to produce gametophytes. Dominant form in higher plants.
- Isomorphic A/G** - Gametophyte and sporophyte individuals are morphologically indistinguishable.
- Heteromorphic A/G** - Gametophyte and sporophyte individuals are morphologically distinct.



### PLANT CLASSIFICATION

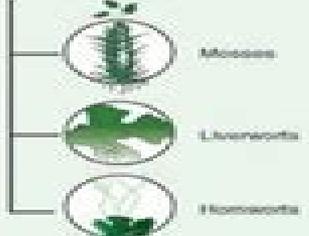
#### SEEDS, VASCULAR



#### SEEDLESS, VASCULAR



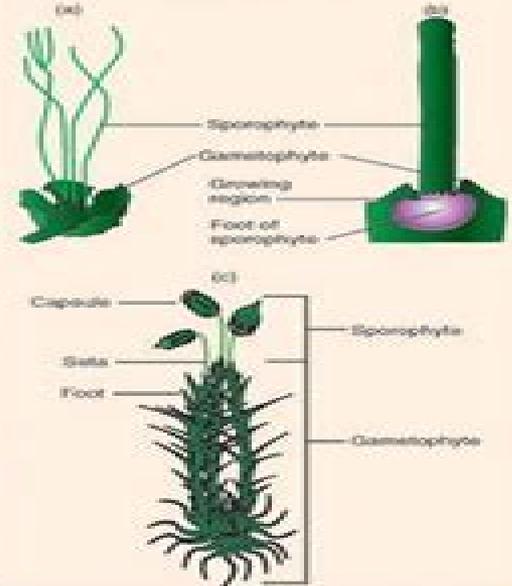
#### NONVASCULAR



GREEN ALGAL ANCESTOR

### NONVASCULAR PLANTS

- For Plants on Land**
- Lack vascular tissues
  - Gametophyte is dominant, sporophyte nutritionally dependent on gametophyte
  - Small, live in moist environments; gametes released into water
- Division **Charophyta** (Liverworts)
  - Division **Anthocerozoophyta** (Hornworts)
  - Division **Bryophyta** (Mosses)



### PLANT EVOLUTION

**Plant evolution:** Land colonization occurred about 400 mya, likely from aquatic, green algae ancestor.

- New problems on land:** Plants must adapt to living in the air, a non-aquatic, dry medium. This presents some problems:
  - Obtaining water and preventing water loss.
  - Transporting water and nutrients.
  - Gas exchange (requires moisture)
  - Gravity
  - Reproduction when gametes swimming in water is limited.
  - Temperature flux of air is more rapid than in water.

#### Plant adaptations/evolution

- Chlorophyll A & B, to capture sunlight - similar to green algae chlorophyll.
- Starch storage, for prolonged inactive periods during seasonal variations.
- Gametes protected and kept moist inside plant tissues.
- Stomata (leaf openings) to regulate gas exchange.
  - Wax surfaces to prevent excess water loss.
  - Root system to pull in water and nutrients from soil.
  - Conduction tissues to transport water, nutrients and food.
- Support tissues to battle gravity for vertical growth.
- All of these adaptations have greatly enhanced the success of plants on land today.

OPEN

# Study Guide To Accompany Botany

**RJ Shavelson**



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