



BOTANY

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

INTRODUCTION

What's so special about plants?

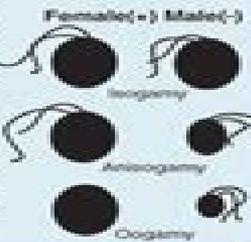
- They are photosynthetic, using the ultimate energy source, the sun, to make their own food. For this reason, they are called **autotrophs**. Plants power most ecosystems and are thus essential to life on Earth.

Have you thanked a plant today?

GAMETE EVOLUTION

Plants have developed different strategies for gamete production and fusion.

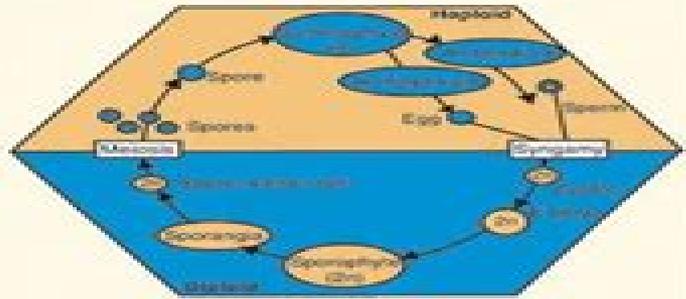
- Isogamy** - Gametes are equally motile and of similar size.
- Anisogamy** - One gamete is large and less motile, with nutrient reserves, while the other is smaller and more motile, with few nutrient reserves.
- Oogamy** - One gamete is non-motile and large, with large nutrient reserves (egg), while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

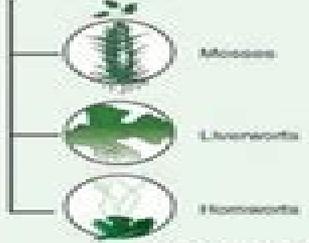
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SEEDLESS, VASCULAR



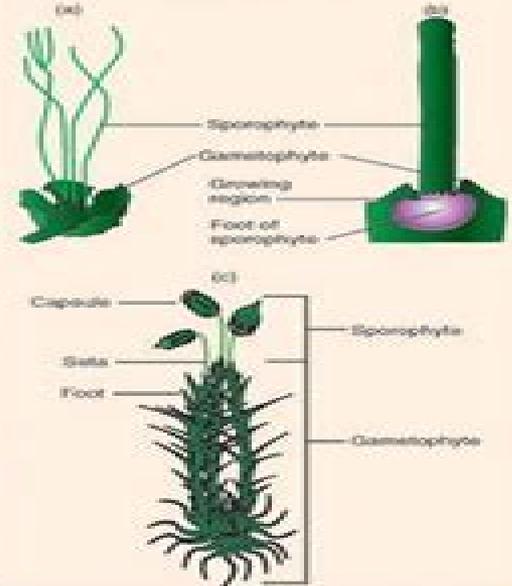
NONVASCULAR



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 **Haptophyta** (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

L Reisser



Study Guide To Accompany Botany:

The Enigmatic Realm of **Study Guide To Accompany Botany**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Study Guide To Accompany Botany** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of people who partake in its reading experience.

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