

AP Biology Note

Stam: Andros

2023

Some of the characteristics of the plant are
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 hair. / Coor tse also

Leaves

1. **Microscopic structure of leaves**
 - **Stomata**
 - **Guard cells**

- **Upper epidermis** - single layer of cells
- **Palisade mesophyll** - columnar cells
- **Spongy mesophyll** - irregular cells with air spaces
- **Stomata** - openings for gas exchange
- **Lower epidermis** - single layer of cells
- **Guard cells** - control the opening of stomata
- **Subcuticular cuticle** - waxy layer on the surface
- **Tracheids** - water-conducting cells
- **Vessels** - water-conducting cells
- **Xylem** - water-conducting tissue
- **Phloem** - nutrient-conducting tissue
- **Companion cells** - support phloem cells
- **Sieve tube elements** - nutrient-conducting cells
- **Phloem fibers** - structural support
- **Collenchyma** - flexible support
- **Sclerenchyma** - rigid support
- **Chloroplasts** - photosynthesis
- **Chlorophyll a** - primary photosynthetic pigment
- **Chlorophyll b** - accessory photosynthetic pigment
- **Carotenoids** - accessory photosynthetic pigments
- **Xanthophylls** - accessory photosynthetic pigments
- **Anthocyanins** - pigments for color
- **Flavonoids** - pigments for color
- **Phenolics** - secondary metabolites
- **Alkaloids** - secondary metabolites
- **Glycosides** - secondary metabolites
- **Terpenoids** - secondary metabolites
- **Essential oils** - secondary metabolites
- **Resins** - secondary metabolites
- **Gums** - secondary metabolites
- **Latex** - secondary metabolites
- **Starch** - storage carbohydrate
- **Sucrose** - transport carbohydrate
- **Glucose** - energy source
- **Fructose** - energy source
- **Cellulose** - structural polysaccharide
- **Hemicellulose** - structural polysaccharide
- **Pectin** - structural polysaccharide
- **Lignin** - structural polysaccharide
- **Chitin** - structural polysaccharide
- **Chitosan** - structural polysaccharide
- **Proteins** - structural and enzymatic
- **Enzymes** - catalyze reactions
- **Antibiotics** - defense against pathogens
- **Antifeedants** - defense against herbivores
- **Toxins** - defense against herbivores
- **Allelochemicals** - defense against competitors
- **Phytotoxins** - defense against competitors
- **Phytoalexins** - defense against pathogens
- **Phenolics** - defense against pathogens
- **Alkaloids** - defense against pathogens
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Ap Biology Chapter 17 Notes

Huangqi Zhang



Ap Biology Chapter 17 Notes:

The book delves into Ap Biology Chapter 17 Notes. Ap Biology Chapter 17 Notes is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Ap Biology Chapter 17 Notes, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Ap Biology Chapter 17 Notes
- Chapter 2: Essential Elements of Ap Biology Chapter 17 Notes
- Chapter 3: Ap Biology Chapter 17 Notes in Everyday Life
- Chapter 4: Ap Biology Chapter 17 Notes in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Ap Biology Chapter 17 Notes. The first chapter will explore what Ap Biology Chapter 17 Notes is, why Ap Biology Chapter 17 Notes is vital, and how to effectively learn about Ap Biology Chapter 17 Notes.

3. In chapter 2, the author will delve into the foundational concepts of Ap Biology Chapter 17 Notes. This chapter will elucidate the essential principles that need to be understood to grasp Ap Biology Chapter 17 Notes in its entirety.

4. In chapter 3, the author will examine the practical applications of Ap Biology Chapter 17 Notes in daily life. This chapter will showcase real-world examples of how Ap Biology Chapter 17 Notes can be effectively utilized in everyday scenarios.

5. In chapter 4, the author will scrutinize the relevance of Ap Biology Chapter 17 Notes in specific contexts. This chapter will explore how Ap Biology Chapter 17 Notes is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, the author will draw a conclusion about Ap Biology Chapter 17 Notes. This chapter will summarize the key points that have been discussed throughout the book.

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