

## **CHAPTER 35**

### **PLANT STRUCTURE, GROWTH, AND DEVELOPMENT**

#### **Learning objectives**

##### **The Plant Body**

1. Describe and compare the three basic organs of vascular plants. Explain how these basic organs are interdependent.
2. List the basic functions of roots. Describe and compare the structures and functions of fibrous roots, taproots, root hairs, and adventitious roots.
3. Describe the basic structure of plant stems.
4. Explain the phenomenon of apical dominance.
5. Describe and distinguish between the leaves of monocots and eudicots.
6. Describe the three tissue systems that make up plant organs.
7. Describe and distinguish between the three basic cell types of plant tissues. For each tissue, describe one characteristic structural feature and explain its functional significance.