

Introduction to

PLANT PHYSIOLOGY



4

Plants and Inorganic Nutrients

Unlike **heterotrophic** organisms, which depend for their existence on energy-rich organic molecules previously synthesized by other organisms, plants must survive in an entirely inorganic environment. As **autotrophic** organisms, plants must take in carbon dioxide from the atmosphere and water and mineral nutrients from the soil and from these simple, inorganic components, make all of the complex molecules of a living organism. Since plants exist at the bottom of the food chain, mineral nutrients synthesized by plants eventually find their way into the matter that makes up all animals, including humans. All organisms must continually draw material substances from their environment in order to maintain their metabolism, growth, and development. The means for making these materials available to the organism is the subject of **plant nutrition**.

Plant nutrition is traditionally viewed as two sep-

arate, independent, processes, but this distinction between organic and inorganic nutrition is more a matter of convenience than real. Nevertheless, because the acquisition and assimilation of carbon are addressed in Chapters 7 and 8, this chapter will focus on the acquisition of mineral elements and the role of these elements in plant metabolism.

This chapter will examine the nutritional requirements of plants that are satisfied by mineral elements. This will include

- methods employed in the study of mineral nutrition,
- the concept of essential and beneficial elements and the distinction between macronutrients and micronutrients,
- a general discussion of the metabolic roles of the 14 essential mineral elements, the concept of critical

WILLIAM G. HOPKINS • NORMAN P. A. HÜNER

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