

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. Hence plants stand as the basis 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 in two ap-

proaches, however, that 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 concepts 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 concepts of critical

Introduction To Plant Physiology

William O. James



Introduction To Plant Physiology:

Enjoying the Track of Term: An Mental Symphony within **Introduction To Plant Physiology**

In some sort of taken by monitors and the ceaseless chatter of instant conversation, the melodic splendor and mental symphony produced by the prepared term often diminish into the background, eclipsed by the constant noise and disruptions that permeate our lives. Nevertheless, situated within the pages of **Introduction To Plant Physiology** an enchanting fictional prize overflowing with organic feelings, lies an immersive symphony waiting to be embraced. Constructed by an outstanding composer of language, that charming masterpiece conducts viewers on an emotional journey, well unraveling the concealed tunes and profound impact resonating within each cautiously constructed phrase. Within the depths of this touching evaluation, we shall discover the book is central harmonies, analyze its enthralling publishing design, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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