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Chloroplasts are dynamic organelles within the plant cell. Movement of

entire chloroplasts to maximize light

absorption was observed

long ago by light

microscopy (see

textbook, Figure 9.14).

Chloroplasts are

surrounded by an

envelope membrane,

which sometimes appears

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to circulate around the
main body of the
organelle.

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Topic 4.4 Leaf

Transpiration and Water
Vapor Gradients.

Transpiration from the
leaf depends on two
major factors: the
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concentration between the leaf air spaces and the external air and, the diffusional resistance (r) of this pathway. This concept of transpiration is analogous to the flow of electrons in an electric circuit.

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The pH in the cytosol of plant cells is around 7.5, and the homogenate should be buffered at pH 7 – 8. A buffer should therefore be included and a plethora of different buffers are available. Choose an inexpensive one with a pKa of 7 – 8 (e.g., 4-morpholinopropane sulfonic acid [MOPS]) and be sure to use

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enough to
counterbalance the acidic
vacuolar content.

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Taiz and Zeiger
collaborate with a stellar

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group of contributing plant biologists to produce a current and authoritative volume that incorporates all the latest findings and new chapters.

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The upper mature leaves
on a plant usually

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provide photosynthates to the growing shoot tip and young, immature leaves; the lower leaves supply predominantly the root system.

Intermediate leaves export in both directions, bypassing the intervening mature leaves. The importance of various sinks may shift during plant development.

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unified chapter entitled Signals from Sunlight has replaced the two Fifth-Edition chapters on Phytochrome and Blue Light Responses. This chapter includes phytochrome, as well as the blue and UV light receptors and their signaling pathways, including phototropins, cryptochromes, and UVR8. The subsequent

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chapters in Unit III are devoted to describing the stages of development from embryogenesis to senescence and the many physiological and environmental factors that regulate them. The result provides students with an improved understanding of the integration of hormones and other signaling agents in developmental

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contains many new or revised figures and photographs, all in full colour. A website, referenced throughout the text, includes additional study questions, WebTopics (elaborating on selected topics discussed in the text), WebEssays (discussions of cutting edge research topics, written by those who did

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the work) and additional suggestions for further reading. Key pedagogical changes to the text result in a shorter book.

Advanced material from the second edition has been removed and posted at an affiliated Web site, while many new or revised figures and photographs, study questions and a glossary of key terms have been

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added. Despite the streamlining of the text, the third edition incorporates all the important developments in plant physiology, especially in cell, molecular and developmental biology.

The Sixth Edition of
Botany: An Introduction

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to Plant Biology provides a modern and comprehensive overview of the fundamentals of botany while retaining the important focus of natural selection, analysis of botanical phenomena, and diversity.

This book focuses on the fundamentals of plant physiology for undergraduate and

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nutrition to organic forms and to synthesize high energy molecules, such as ATP. Light signal perception and transduction works in perfect coordination with a wide variety of plant growth regulators in regulating various plant developmental processes, and these aspects are explored in Unit III. Unit IV investigates plants '

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various structural and biochemical adaptive mechanisms to enable them to survive under a wide variety of abiotic stress conditions (salt, temperature, flooding, drought), pathogen and herbivore attack (biotic interactions). Lastly, Unit V addresses the large number of secondary metabolites produced by plants that are

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medicinally important for mankind and their applications in biotechnology and agriculture. Each topic is supported by illustrations, tables and information boxes, and a glossary of important terms in plant physiology is provided at the end.

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