

The background of the cover is a photograph of a dense forest. A stream flows through the center, its water appearing white and frothy as it cascades over large, dark rocks. The rocks and the surrounding forest floor are heavily covered in vibrant green moss. Tall, slender trees with dark trunks and dense green foliage form the canopy above. The overall atmosphere is serene and natural, emphasizing the theme of plant life.

PLANT PHYSIOLOGY

Fifth Edition

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Plant Physiology ,1926 Plant Physiology Lincoln Taiz,Eduardo Zeiger,2010 This fifth edition provides the basics for introductory courses on plant physiology without sacrificing the more challenging material sought by upper division and graduate level students Many new or revised figures and photographs study questions and a glossary of key terms have been added *Plant Physiology: Energy and carbon metabolism* Frederick Campion Steward,1983 *Ethylene in Plant Biology* Frederick Abeles,2012-12-02 Ethylene in Plant Biology focuses on the role of ethylene in plant physiology and the interrelationship between ethylene fruit ripening and respiration It summarizes the physiology biochemistry production regulation plant effects metabolism and mechanism of action of ethylene This book presents an introduction to basic chemistry of ethylene and available techniques for its sampling and analysis Then it discusses the rate environmental conditions and reactions involved in ethylene production Chapter 4 examines the effects of herbicides and hormones such as auxin gibberellins cytokinins and abscisic acid on ethylene production Meanwhile the next chapter studies the so called stress ethylene phenomenon in plants In particular this book examines the role of insects temperature water gamma irradiation and mechanical and chemical stimuli in stress ethylene The biochemical aspects of ethylene are covered in the subsequent chapters These include its role in growth and development of plant phytoogerontological activity role in ethylene synthesis respiration pigmentation and hormone regulation Chapter 9 presents the activity of ethylene relative to other hydrocarbon analogs and dose response relationships for a number of ethylene mediated processes The concluding chapters tackle the attachment of ethylene to its site of action including epinasty root initiation intumescence formation and floral initiation A discussion on the issue of ethylene air pollution is included This book will be useful to both undergraduate students and professional workers especially those who have background in plant anatomy plant physiology or biochemistry

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