

Plant Physiology Taiz 5th Edition

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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 growth development and metabolism delves into the intricate science behind plant life we provide a comprehensive exploration of the entire lifecycle of plants from water and nutrient uptake to reproduction making it an invaluable resource for researchers educators and students our book begins with the basics explaining essential processes like photosynthesis respiration and transpiration that enable plants to grow and survive we then cover plant development including seed germination root and shoot growth and flowering metabolism is a major focus discussing both primary metabolism crucial for survival and secondary metabolism which produces pigments and defense compounds this book offers clear explanations and illustrative examples to ensure complex concepts are easy to understand plant physiology growth development and metabolism is filled with interesting facts and scientific details providing a thorough understanding of how plants function written by experts this book bridges the gap between advanced scientific knowledge and accessible learning

this book explores the impact of soil water deficiency on various aspects of physiological processes

in plants the book explains the effects under soil water deficit condition such as lowering of plant water content disturbance in carbon metabolism such in photosynthesis photorespiration and respiration as well as effects of soil water deficit on nitrogen metabolism the book also educates the readers about mineral nutrition under soil water deficit condition and roles of different nutrient to overcome water deficit changes in growth and development pattern of plant under soil water deficit condition and effects on growth and development are elaborated this book is of interest to teachers researchers scientists in botany and agriculture also the book serves as additional reading material for undergraduate and graduate students of agriculture forestry ecology soil science and environmental sciences national and international agricultural scientists policy makers will also find this to be a useful read the in depth description of the major physiological issues in plants under soil water deficit that are presented in this book will help breeders tailoring crops for desirable physiological survival traits in the face of increasing soil water deficit this book is an impactful addition to the library of any faculty members researchers agricultural policy planner post graduate or student studying in plant physiology biochemistry microbiology and other subjects related to crop husbandry

global climate change affects crop production through altered weather patterns and increased environmental stresses such stresses include soil salinity drought flooding metal metalloids toxicity pollution and extreme temperatures the variability of these environmental conditions paired with the sessile lifestyle of plants contribute to high exposure to these stress factors increasing tolerance of crop plants to abiotic stresses is needed to fulfill increased food needs of the population this book focuses on methods of improving plants tolerance to abiotic stresses it provides information on how protective agents including exogenous phytoprotectants can mitigate abiotic stressors affecting plants the application of various phytoprotectants has become one of the most effective approaches in enhancing the tolerance of plants to these stresses phytoprotectants are discussed in detail including information on osmoprotectants antioxidants phytohormones nitric oxide polyamines amino acids and nutrient elements of plants providing a valuable resource of information on phytoprotectants this book is useful in diverse areas of life sciences including agronomy plant physiology cell biology environmental sciences and biotechnology

plants are frequently exposed to unfavorable and adverse environmental conditions known as abiotic stressors these factors can include salinity drought heat cold flooding heavy metals and uv radiation which pose serious threats to the sustainability of crop yields since abiotic stresses are major constraints for crop production finding the approaches to enhance stress tolerance is crucial to increase crop production and increase food security this book discusses approaches to enhance abiotic stress tolerance in crop plants on a global scale plants scientists and breeders will learn how to further mitigate plant responses and develop new crop varieties for the changing climate

throughout its twenty two year history the authors of plant physiology have continually updated the book to incorporate the latest advances in plant biology and implement pedagogical improvements requested by adopters this has made plant physiology the most authoritative comprehensive and widely used upper division plant biology textbook in the sixth edition the growth and development section unit iii has been reorganized and expanded to present the complete life cycle of seed plants from germination to senescence in recognition of this enhancement the text has been renamed plant physiology and development as before unit iii begins with updated chapters on cell walls and signals and signal transduction the latter chapter has been expanded to include a discussion of major signaling molecules such as calcium ions and plant hormones a new 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 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 regulation

published by sinauer associates an imprint of oxford university press throughout its twenty two year history the authors of plant physiology and development have continually updated the book to incorporate the latest advances in plant biology and implement pedagogical improvements requested by adopters this has made plant physiology and development the most authoritative comprehensive and widely used upper division plant biology textbook

plant growth and development a molecular approach presents the field of plant development from both molecular and genetic perspectives this field has evolved at a rapid rate over the past five years through the increasing exploitation of the remarkable plant arabidopsis the small genome rapid life cycle and ease of transformation of arabidopsis as well as the relatively large number of laboratories that are using this plant for their research have lead to an exponential increase in information about plant development mechanisms in plant growth and development a molecular approach professor fosket synthesizes this flood of new information in a way that conveys to students the excitement of this still growing field his textbook is based on notes developed over more than ten years of teaching a course on the molecular analysis of plant growth and development and assumes no special knowledge of plant biology it is intended for advanced undergraduates in plant development as well as those in plant molecular biology graduate students and researchers who are just beginning to work in the field will also find much valuable information in this book each chapter concludes with questions for study and review as well as suggestions for further reading illustrated with two color drawings and graphs throughout and containing up to date and comprehensive coverage plant growth and development a molecular approach will excite and inform students as it increases their understanding of plant science presents plant development from a molecular and cellular perspective illustrates concepts with two colour diagrams throughout offers key study questions and guides to further reading within each chapter gives an up to date and thorough treatment of this increasingly important subject area derived from the author s many years of teaching plant developmental biology

this text offers coverage of molecular biology topics including biochemistry research in molecular biology extracellular matrix cell cycle and cell signalling and recombinant dna technology

this one of a kind manual offers twenty three foolproof labs designed to make molecular biology accessible and interesting to beginning biology students covering the basic techniques of gene manipulation and analysis these tried and true experiments were tested and re tested by the experienced author team to ensure absolute accuracy and ease of use

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Introduction

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