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this updated and much revised third edition of seeds physiology of development germination and dormancy provides a thorough overview of seed biology and incorporates much of the progress that has been made during the past fifteen years with an emphasis on placing information in the context of the seed this new edition includes recent advances in the areas of molecular biology of development and germination as well as fresh insights into dormancy ecophysiology desiccation tolerance and longevity authored by preeminent authorities in the field this book is an invaluable resource for researchers teachers and students interested in the diverse aspects of seed biology

this book focuses on the fundamentals of plant physiology for undergraduate and graduate students it consists of 34 chapters divided into five major units unit i discusses the unique mechanisms of water and ion transport while unit ii describes the various metabolic events essential for plant development that result from plants ability to capture photons from sunlight to convert inorganic forms of 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 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 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

plant physiology and development incorporates the latest advances in plant biology making plant physiology the most authoritative and widely used upper division plant biology textbook

up to date comprehensive and meticulously illustrated the improved integration of developmental material throughout the text ensures that plant physiology and development provides the best educational foundation possible for the next generation of plant biologists this new updated edition includes current information to improve understanding while maintaining the core structure of the book figures have been revised and simplified wherever possible to eliminate redundancy stomatal function chapter 10 in the previous edition has been reassigned to other chapters in addition a series of feature boxes related to climate change are also included in this edition an enhanced ebook with embedded self assessment topics and essays and study questions is available with this edition

over recent years progress in micropropagation has not been as rapid as many expected and even now relatively few crops are produced commercially one reason for this is that the biology of material growing in vitro has been insufficiently understood for modifications to standard methods to be made based on sound physiological principles however during the past decade tissue culture companies and others have invested considerable effort to reduce the empirical nature of the production process the idea of the conference physiology growth and development of plants and cells in culture lancaster 1992 was to introduce specialists in different areas of plant physiology to micropropagators with the express aims of disseminating as wide a range of information to as large a number of participants as possible and beginning new discussions on the constraints and potentials affecting the development of in vitro plant production methods this book is based on presentations from the conference and has been divided into two main sections dealing with either aspects of the in vitro environment light nutrients water gas or with applied aspects of the culture process morphogenesis acclimation rejuvenation contamination

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

in response to enormous recent advances particularly in molecular biology the authors have revised their warmly received work this new edition includes updates on seed development gene expression dormancy and other subjects it will serve as the field s standard textbook and reference source for many years to come

plant physiology a treatise volume x growth and development explores the physiology of plant growth and development considering the morphogenesis and morphogenetic systems dormancy environmental cues in plant growth and development plant senescence the role of hormones in growth regulation cell division and growth and development in space this volume is organized into eight chapters and begins with an introduction to morphogenesis as a developmental phenotype emphasizing the cell and the shoot the next chapters cover events in the life of the plant reflecting the importance of the whole plant concept to the subject and the ways in which these events are controlled and integrated into environmental signals and events an experimental approach to a model system for dormancy is described and then the discussion shifts to senescence and death of plants as aspects of plant development this volume also presents a clear and illuminating overview of the major plant

growth regulators and their modes of action this book also introduces the reader to cell division and its effect on most major developmental events after fertilization along with the genetic analysis of development and its control by genes the final chapter focuses on the integration of plant growth studies with the technology of space travel which permits analysis of plant behavior in the complete absence of gravity this book is intended for researchers students and specialists in related fields who wish to gain insight on the concepts and research trends in plant growth and development

the physiology of growth

this sixth 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

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