

Hormone	Action	Commercial Application
Auxins	Influence cell division, cell elongation, cell differentiation affecting apical dominance, tropisms, flowering, abscission and senescence.	Development of transgenic plants without seeds (e.g strawberry, tomato, eggplant); applied to seedless fruit to make them grow larger; encourage root formation in plant cuttings and growth in plant tissue culture; as weed killers
Gibberellins	Increases elongation growth- e.g. they cause the rapid growth of internodes in stems making the plant grow taller.	Applied to increase fruit size (e.g. Grapes) and increase the distance between fruit on a stem. Can be used to break seed dormancy—encouraging the seed to germinate.
Ethylene	Promoted ripening of fruits and abscission (falling) of leaves.	Can be used to make fruit ripen earlier than it would naturally.
Cytokinins	Regulate cell division.	Promotes the growth of lateral buds in flowering plants.
Absciscic Acid	Inhibits other hormones—promoting dormancy in plants and seeds.	No commercial applications as the cost of producing synthetic versions of this hormone are too high.

Table 1: Plant Hormone Action and Application

Plant Hormones Pogil Key

P.J. Davies



Plant Hormones Pogil Key:

Plant Hormones and their Role in Plant Growth and Development P.J. Davies, 2012-12-06 Plant hormones play a crucial role in controlling the way in which plants grow and develop. While metabolism provides the power and building blocks for plant life, it is the hormones that regulate the speed of growth of the individual parts and integrate these parts to produce the form that we recognize as a plant. In addition, they play a controlling role in the processes of reproduction. This book is a description of these natural chemicals: how they are synthesized and metabolized, how they work, how we measure them, and a description of some of the roles they play in regulating plant growth and development. This is not a conference proceedings but a selected collection of newly written, integrated, illustrated reviews describing our knowledge of plant hormones and the experimental work which is the foundation of this knowledge. The information in these pages is directed at advanced students and professionals in the plant sciences: botanists, biochemists, molecular biologists, or those in the horticultural, agricultural, and forestry sciences. It is intended that the book should serve as a text and guide to the literature for graduate-level courses in the plant hormones or as a part of courses in plant or comparative development. Scientists in other disciplines who wish to know more about the plant hormones and their role in plants should also find this volume invaluable. It is hoped that anyone with a reasonable scientific background can find valuable information in this book.

Plant Hormones P.J. Davies, 2013-12-01 Plant hormones play a crucial role in controlling the way in which plants grow and develop. While metabolism provides the power and building blocks for plant life, it is the hormones that regulate the speed of growth of the individual parts and integrate these parts to produce the form that we recognize as a plant. In addition, they play a controlling role in the processes of reproduction. This book is a description of these natural chemicals: how they are synthesized and metabolized, how they work, what we know of their molecular biology, how we measure them, and a description of some of the roles they play in regulating plant growth and development. Emphasis has also been placed on the new findings on plant hormones deriving from the expanding use of molecular biology as a tool to understand these fascinating regulatory molecules. Even at the present time, when the role of genes in regulating all aspects of growth and development is considered of prime importance, it is still clear that the path of development is nonetheless very much under hormonal control, either via changes in hormone levels in response to changes in gene transcription or with the hormones themselves as regulators of gene transcription. This is not a conference proceedings but a selected collection of newly written, integrated, illustrated reviews describing our knowledge of plant hormones and the experimental work that is the foundation of this knowledge.

Chemistry of Plant Hormones Nobutaka Takahashi, 2018-10-08 The chemistry of the five principal plant hormone groups is discussed in detail in this volume. Contributing authors review history and occurrence of each hormone group, methods of isolation and detection, biosynthesis and metabolism, and structural determination. Through these analyses, the authors clarify the role of endogenous plant growth regulators in the life cycle of higher plants.

The text is supplemented with over 350 figures and structures of various plant hormones

Plant Hormones Gerald Litwack, 2005-10-13 Volume 72 is wholly dedicated to the topic of plant hormones Although *Vitamins and Hormones* is normally dedicated to mammalian hormone action this volume is unique to plants and their actions through receptors The genetic aspects and the receptorology are reminiscent of the mammalian systems The well known hormones are reviewed including cytokinins abscisic acid gibberellin and auxin In addition there are reviews on nitric oxide brassinosteroids jasmonate ethylene and pheromones Other topics included are genes that are regulated by abscisic acid and gibberellin functional differentiation and transition of peroxisomes plant antioxidants gravitropic bending and the actions of plant hormones on glutathione transferase Includes color illustrations Available on ScienceDirect Longest running series published by Academic Press Contributions by leading international authorities

Hormonal Regulation of Development I J. MacMillan, 2012-12-06 This is the first of the set of three volumes in the *Encyclopedia of Plant Physiology New Series* that will cover the area of the hormonal regulation of plant growth and development The overall plan for the set assumes that this area of plant physiology is sufficiently mature for a review of current knowledge to be organized in terms of unifying principles and processes Reviews in the past have generally treated each class of hormone individually but this set of volumes is subdivided according to the properties common to all classes Such an organization permits the examination of the hypothesis that differing classes of hormones acting according to common principles are determinants of processes and phases in plant development Also in keeping with this theme a plant hormone is defined as a compound with the properties held in common by the native members of the recognized classes of hormone Current knowledge of the hormonal regulation of plant development is grouped so that the three volumes consider advancing levels of organizational complexity viz molecular and subcellular cells tissues organs and the plant as an organized whole and the plant in relation to its environment The present volume treats the molecular and subcellular aspects of hormones and the processes they regulate Although it deals with chemically distinct classes of hormone this volume stresses properties and modes of studying them that are common to all classes

Annual Plant Reviews, Plant Hormone Signaling Peter Hedden, Stephen G. Thomas, 2008-04-15 Plant growth is regulated by developmental programmes that can be modified by environmental cues acting through endogenous signaling molecules including plant hormones This volume provides an overview of the biosynthesis catabolism perception and signal transduction of the individual hormone classes followed by chapters on hormone distribution and transport and the roles of hormone signaling in specific developmental processes Particular attention is paid to the regulation of hormone signaling by environmental and developmental cues sites of hormone metabolism and action and interactions between hormone signaling pathways The book is directed at researchers and professionals in plant biochemistry and molecular biology

Biochemistry and Physiology of Plant Hormones Thomas C. Moore, 2012-12-06 *Biochemistry and Physiology of Plant Hormones* is intended primarily as a textbook or major reference for

a one term intermediate level or advanced course dealing with hormonal regulation of growth and development of seed plants for students majoring in biology botany and applied botany fields such as agronomy forestry and horticulture Additionally it should be useful to others who wish to become familiar with the topic in relation to their principal student or professional interests in related fields It is assumed that readers will have a background in fundamental biology plant physiology and biochemistry The dominant objective of Biochemistry and Physiology of Plant Hormones is to summarize in a reasonably balanced and comprehensive way the current state of our fundamental knowledge regarding the major kinds of hormones and the phytochrome pigment system Written primarily for students rather than researchers the book is purposely brief Biochemical aspects have been given priority intentionally somewhat at the expense of physiological considerations There are extensive citations of the literature both old and recent but it is hoped not so much documentation as to make the book difficult to read The specific choices of publications to cite and illustrations to present were made for different reasons often to illustrate historical development sometimes to illustrate ideas that later proved invalid occasionally to exemplify conflicting hypotheses and most often to illustrate the current state of our knowledge about hormonal phenomena

Plant Hormones Peter J. Davies, 2004 Substantially revised 3rd edition

Plant Hormone Protocols Gregory A. Tucker, Jeremy A. Roberts, 2008-02-04 Established investigators from around the world describe in step by step detail their best techniques for the study of plant hormones and their regulatory activities These state of the art methods include contemporary approaches to identifying the biosynthetic pathways of plant hormones monitoring their levels characterizing the receptors with which they interact and analyzing the signaling systems by which they exert their effects Comprehensive and fully detailed for reproducible laboratory success Plant Hormone Protocols offers plant biologists an indispensable compendium of today's most powerful methods and strategies to studying plant hormones their regulation and their activities

Introduction to the Biochemistry and Physiology of Plant Growth Hormones Irving David James Phillips, 1971 The nature of plant growth hormones Growth hormones in shoot and root development Growth hormones in phototropism and geotropism Hormones and reproduction in higher plants Growth hormones and phase change in plants The mechanism of action of plant growth hormones

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