

PLANT GROWTH REGULATORS

- ◆ PLANT GROWTH REGULATORS ARE NECESSARY FOR, BUT DO NOT CONTROL, MANY ASPECTS OF PLANT GROWTH AND DEVELOPMENT. - BETTER NAME IS GROWTH REGULATOR.
- ◆ THE EFFECT ON PLANT PHYSIOLOGY IS DEPENDENT ON THE AMOUNT OF HORMONE PRESENT AND TISSUE SENSITIVITY TO THE PLANT GROWTH REGULATOR
- ◆ substances produced in small quantities by a plant, and then transported elsewhere for use
 - ◆ have capacity to stimulate and/or inhibit physiological processes
- ◆ at least five major plant hormones or plant growth regulators:
 - ◆ auxins, cytokinins, gibberellins, ethylene and abscisic acid

Plant Growth Regulators

Amarjit Basra



Plant Growth Regulators:

Plant Growth Regulators in Agriculture and Horticulture Amarjit Basra, 2000-12-13 As agriculture becomes more mechanized and science increases the possibilities for using inputs to enhance production the role of PGRs becomes more vital Plant Growth Regulators in Agriculture and Horticulture provides agriculture professionals and researchers with the information needed to effectively tap these versatile resources to enhance crop production Through discussions of the classical five phytohormones gibberellins cytokinins ethylene abscisic acid and auxins and the growing number of nontraditional PGRs such as oligosaccharins and brassinosteroids Plant Growth Regulators in Agriculture and Horticulture reviews past and present uses of PGRs in managing crop yield and offers some speculation on future directions Detailed discussions on the use of PGRs in for example grain ornamental and citrus crops introduce readers to strategies for enhancing crop quantity and quality for improving the postproduction quality of life of perishable plants and for crop load management respectively The book also includes informative visuals such as tables of common chemical and trade names of different commercially available PGRs diagrams of various PGR processes as well as before and after pictures illustrating the effects of PGRs Plant Growth Regulators in Agriculture and Horticulture is a comprehensive text covering the role of plant growth regulators in root formation manipulating yield potential plant stress protection ornamental horticulture postharvest life of ornamentals manipulating fruit development and storage quality citriculture reducing fruit drop bloom thinning strategies If the history of agriculture which is over 10 000 years old was condensed into a twenty four hour span science based plant breeding would be only about fifteen minutes old Still the role of PGRs in agriculture is modest compared to other agrochemicals such as fungicides herbicides and insecticides Plant Growth Regulators in Agriculture and Horticulture is an invaluable guide to the varied roles filled by PGRs in the attainment of higher quality better yielding crops Plant Growth Regulators Charles A. Stutte, 1977 Considerations in searching for new plant growth regulators Chemical enhancement of sucrose accumulation in sugarcane Fruit abscission and chemical aids to harvest Modification of growth regulatory action with inorganic solutes management of the cotton plant with ethylene and other growth regulators Economic potential of plant growth regulators Economic value of growth regulants in horticulture Plant growth regulator potential on sugarbeets Economic potential of growth regulators for floriculture and woody ornamentals The development of DNBP Dinoseb as a biostimulant for corn Zea mays L Proceedings of the Plant Growth Regulation Society of America Plant Growth Regulation Society of America. Meeting, 2000 Plant Growth Regulators Jeremy A. Roberts, 2012-12-06 What are plant growth regulators In the title and throughout the text we have adopted this expression to describe a population of endogenous molecules and synthetic compounds of similar structure that are believed to play important roles in the regulation of plant differentiation and development For many years plant scientists have endeavoured to understand the nature and action of plant growth regulators and as a result an awesome quantity of written material now exists describing

these chemicals and their effects In this book we have aimed to distil this wealth of information into a more digestible form and in particular we have focused our attention on a critical appraisal of the literature The past few years have witnessed a change of emphasis in plant growth regulator research which has been fuelled by powerful new techniques in molecular and cell biology Today we can do more than just apply a plant growth regulator and quantify its effects we have reached an exciting crossroads where plant scientists molecular biologists and chemists can pool their expertise and apply it to the outstanding problems in this area The combination of these three disciplines within the book is clear evidence of this In keeping with a volume of this size we have assumed that the reader has a sound knowledge of plant physiology and biochemistry However wherever possible we have highlighted useful reviews which provide background information along with recent publications that have contributed significantly to the literature

Plant Growth Regulators in Agriculture and Horticulture Amarjit Basra, 2024-11-01 As agriculture becomes more mechanized and science increases the possibilities for using inputs to enhance production the role of PGRs becomes more vital Plant Growth Regulators in Agriculture and Horticulture provides agriculture professionals and researchers with the information needed to effectively tap these versatile resources to enhance crop production Through discussions of the classical five phytohormones gibberellins cytokinins ethylene abscisic acid and auxins and the growing number of nontraditional PGRs such as oligosaccharins and brassinosteroids Plant Growth Regulators in Agriculture and Horticulture reviews past and present uses of PGRs in managing crop yield and offers some speculation on future directions Detailed discussions on the use of PGRs in for example grain ornamental and citrus crops introduce readers to strategies for enhancing crop quantity and quality for improving the postproduction quality of life of perishable plants and for crop load management respectively The book also includes informative visuals such as tables of common chemical and trade names of different commercially available PGRs diagrams of various PGR processes as well as before and after pictures illustrating the effects of PGRs Plant Growth Regulators in Agriculture and Horticulture is a comprehensive text covering the role of plant growth regulators in root formation manipulating yield potential plant stress protection ornamental horticulture postharvest life of ornamentals manipulating fruit development and storage quality citriculture reducing fruit drop bloom thinning strategies If the history of agriculture which is over 10 000 years old was condensed into a twenty four hour span science based plant breeding would be only about fifteen minutes old Still the role of PGRs in agriculture is modest compared to other agrochemicals such as fungicides herbicides and insecticides Plant Growth Regulators in Agriculture and Horticulture is an invaluable guide to the varied roles filled by PGRs in the attainment of higher quality better yielding crops *Plant Growth Regulators* Plant Growth Regulators, New York, 1966, 1967

Plant Growth Regulators for Higher Plants, January 1979-February 1988 Charles N. Bebee, 1988 [Plant Growth Regulators in Tropical and Sub-tropical Fruit Crops](#) S.N. Ghosh, R.K. Tarai, T.R. Ahlawat, 2022-06-01 Plant growth regulators or plant bio regulators have emerged as a powerful tool for improving the

performance of horticultural crops in general and fruit crops in particular This book provided recent information on role of plant hormones how their concentrations are regulated and how they modulate the various plant processes Plant Growth Regulators in Tropical Sub tropical Fruit Crops is a comprehensive book covering function of plant growth regulators in propagation including micro propagation growth flowering and fruiting behaviour yield quality shelf life and stress management etc This book has 26 chapters covering most of the tropical and sub tropical fruit crops like aonla avocado banana ber citrus custard apple date palm fig grape guava jamun kokam litchi mango mulberry papaya passion fruit sapota phalsa pomegranate and strawberry Note T F does not sell or distribute the Hardback in India Pakistan Nepal Bhutan Bangladesh and Sri Lanka **Plant Growth Regulators (videorecording)**, 1982 Plant Growth Regulators for Climate-Smart Agriculture Shah Fahad, Osman Sonmez, Shah Saud, Depeng Wang, Chao Wu, Muhammad Adnan, Veysel Turan, 2021-07-27 Climatic conditions are key determinants of plant growth whether at the scale of temperature regulation of the cell cycle or at the scale of the geographic limits for a particular species The climate is changing due to human activities particularly the emission of greenhouse gases therefore the conditions for the establishment growth reproduction survival and distribution of plant species are changing In contrast to animals plants are able to cease and resume growth This flexibility in their architecture and growth pattern is partly achieved by the action of plant hormones Still the role of plant growth regulators PGRs in agriculture is modest compared to other agrochemicals such as fungicides herbicides and insecticides Plant Growth Regulators for Climate Smart Agriculture is an invaluable guide to the varied roles filled by PGRs in the attainment of higher quality better yielding crops Salient Features minimum 5 Explores plant growth regulators and anthropogenic climate change Provides new insights related to hormonal cross talk in plant development and stress responses Sheds new light on the role of PGRs in agriculture in the attainment of higher quality better yielding crops Delivers valuable information on physiological and molecular mechanisms linked to the role of plant growth regulators in stress tolerance Provides valuable knowledge for students of agronomy plant physiology molecular biology and environmental sciences **Plant Growth Regulators (PGRS)** Qiang-Sheng Wu, 2020 Plant growth regulators consist of organic molecules produced synthetically and used to modulate plant growth There are several classes of plant growth regulators including auxin gibberellin abscisic acid cytokinins salicylic jasmonic acid and ethylene as well as more recently investigated brassinosteroids strigolactones polyamine etc These plant growth regulators have either promoting or inhibitory effects on plant growth and development by means of modification in plant secondary metabolism and gene regulation Some of plant growth regulators may have safe issues in fields More attention should be paid in the application of plant growth regulators Researchers also try to find other regulators to do more field experiments in order to reduce the amount of organic chemicals e g traditional plant growth regulators used This book discusses the function types uses and safety of plant growth regulators The effects of plant growth regulators on horticultural plants are specially introduced in this book Fly ash

and soil mycorrhizal fungi released glomalin also get a lot of attention in this book **Interactions Between Nitrogen and Growth Regulators in the Control of Plant Development** Michael B. Jackson, 1983 **Plant Growth Regulators**, 1967

Plant Growth Regulators L.G. Nickell, 1982 Rooting and plant propagation Germination and dormancy Flowering Gametocides Abscission Fruit set and development Plant and organ size Axillary buds Chemical pruning Plant shape Tillering Resistance to and control of insects and diseases Overcoming environmental stress Mineral uptake Plant composition Metabolic effects ripening and yield increases Modification of sexual expression Senescence Desiccation Protection against herbicide damage Increase of herbicide absorption and translocation Toxicology environmental and human safety **Plant Growth Regulator Handbook** Plant Growth Regulator Working Group, 1990 Plant Growth Regulator Handbook Plant Growth Regulator Working Group, 1977 Plant Growth Regulators: Resilience for Sustainable Agriculture Mohammad Faizan, Shamsul Hayat, 2024-07-31 This edited book focuses on plant growth regulator synthesis potential applications stress tolerance mechanisms and preservations It explores the recently registered molecules strigolactones karrikins and hemin mediated regulation of plant biology Chapters cover the integration of plant hormones in the biological system as an opportunity for sustainable agriculture This book explores the latest information on plant growth regulators covering both theoretical and practical aspects Plant growth regulators are organic chemical compounds that alter or regulate the metabolism in plants In plants plant growth regulators play the role of biostimulants that can enhance resistance to stress Plant growth regulators in low concentrations often lead to vital improvements and high yields in crop plants Plant growth regulators are involved in several physiological morphological and biochemical mechanisms associated with plant growth development and defence against stresses This book brings together the latest research work on plant growth regulators and their emerging importance The book is a useful read for students researchers and instructors in the field of plant biology

Plant Growth Regulators Tariq Aftab, Khalid Rehman Hakeem, 2021-03-25 Agriculture faces many challenges to fulfil the growing demand for sustainable food production and ensure high quality nutrition for a rapidly growing population To guarantee adequate food production it is necessary to increase the yield per area of arable land A method for achieving this goal has been the application of growth regulators to modulate plant growth Plant growth regulators PGRs are substances in specific formulations which when applied to plants or seeds have the capacity to promote inhibit or modify physiological traits development and or stress responses They maintain proper balance between source and sink for enhancing crop yield PGRs are used to maximize productivity and quality improve consistency in production and overcome genetic and abiotic limitations to plant productivity Suitable PGRs include hormones such as cytokinins and auxins and hormone like compounds such as mepiquat chloride and paclobutrazol The use of PGRs in mainstream agriculture has steadily increased within the last 20 years as their benefits have become better understood by growers Unfortunately the growth of the PGR market may be constrained by a lack of innovation at a time when an increase in demand for new products will require steady innovation

and discovery of novel cost competitive specific and effective PGRs A plant bio stimulant is any substance or microorganism applied to plants with the aim to enhance nutrition efficiency abiotic stress tolerance and or crop quality traits regardless of its nutrients content Apart from traditional PGRs which are mostly plant hormones there are a number of substances molecules such as nitric oxide methyl jasmonate brassinosteroids seaweed extracts strigolactones plant growth promoting rhizobacteria etc which act as PGRs These novel PGRs or bio stimulants have been reported to play important roles in stress responses and adaptation They can protect plants against various stresses including water deficit chilling and high temperatures salinity and flooding This book includes chapters ranging from sensing and signalling in plants to translational research In addition the cross talk operative in plants in response to varied signals of biotic and abiotic nature is also presented Ultimately the objective of this book is to present the current scenario and the future plan of action for the management of stresses through traditional as well as novel PGRs We believe that this book will initiate and introduce readers to state of the art developments and trends in this field of study

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Table of Contents Plant Growth Regulators

1. Understanding the eBook Plant Growth Regulators
 - The Rise of Digital Reading Plant Growth Regulators
 - Advantages of eBooks Over Traditional Books
2. Identifying Plant Growth Regulators
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Plant Growth Regulators
 - User-Friendly Interface
4. Exploring eBook Recommendations from Plant Growth Regulators
 - Personalized Recommendations
 - Plant Growth Regulators User Reviews and Ratings
 - Plant Growth Regulators and Bestseller Lists
5. Accessing Plant Growth Regulators Free and Paid eBooks

- Plant Growth Regulators Public Domain eBooks
 - Plant Growth Regulators eBook Subscription Services
 - Plant Growth Regulators Budget-Friendly Options
6. Navigating Plant Growth Regulators eBook Formats
 - ePub, PDF, MOBI, and More
 - Plant Growth Regulators Compatibility with Devices
 - Plant Growth Regulators Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Plant Growth Regulators
 - Highlighting and Note-Taking Plant Growth Regulators
 - Interactive Elements Plant Growth Regulators
 8. Staying Engaged with Plant Growth Regulators
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Plant Growth Regulators
 9. Balancing eBooks and Physical Books Plant Growth Regulators
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Plant Growth Regulators
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Plant Growth Regulators
 - Setting Reading Goals Plant Growth Regulators
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Plant Growth Regulators
 - Fact-Checking eBook Content of Plant Growth Regulators
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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