Plant Growth Regulators (PGRs)

Types, Uses and Safety

Qiang-Sheng Wu De-Jian Zhang Editors

PLANT SCIENCE RESEARCH AND PRACTICES



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Plant Growth Regulators Agricultural Uses

Amarjit Basra

Plant Growth Regulators Agricultural Uses:

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 guality better yielding crops 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 Regulators L.G. Nickell, 1982 Chemicals that control plant growth have long been treated like a poor relation of the herbicides yet in one manner of thinking herbicides them selves are but one facet of the entire picture of plant growth regulation a major fraction to be sure economically It is now time to recognize that plant growth regulators should occupy an increasingly important role in agriculture Sufficient numbers of uses having considerable economic re turn have already become established a to increase the latex flow in the rubber trees b to ripen sugarcane c to control sprouting in onions and potatoes d to shorten and strengthen wheat stems to prevent lodging e to prevent premature deterioration and f to permit control of timing for

maximum utilization of crops In addition as energy becomes more difficult and costly to obtain plant growth regulators will play an increasingly important role in energy conser vation as a result of increased yields due to their use There are a number of ways to present to the reader the role and effectiveness of plant growth regulators. The one chosen here is to emphasize the effects on plant functions such as the induction of roots the control of flowering the control of sex and the control of aging Little emphasis has been placed on the basic research that has served as a background for the successes and potential successes discussed herein N or is much attention paid to the mode of action of the various regulators 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 of 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 **Emerging Plant Growth** Regulators in Agriculture M. Naeem, Tariq Aftab, 2021-11-13 Emerging Plant Growth Regulators in Agriculture Roles in Stress Tolerance presents current PGR discoveries and advances for agricultural applications providing a comprehensive reference for those seeking to apply these tools for improved plant health and crop yield As demand for agricultural crops and improved nutritional requirement continue to escalate in response to increasing population plant researchers have focused on identifying scientific approaches to minimize the negative impacts of climate change on agriculture crops Among the various applied approaches the application of plant growth regulators PGRs have gained significant attention for their

ability to enhance stress tolerance mechanisms This book was developed to provide foundational and emerging information to advance the discovery of novel cost competitive specific and effective PGRs for applications in agriculture Highlights the latest developments in stress signaling cross talk and PGR mechanisms as applied to agriculture and agronomy Includes case studies and examples to provide real world insights Presents resources for future research and field application 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 mepiguat 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 Plant Growth Regulators for Higher Plants, January 1979-February 1988 Charles N. Bebee,1988 Plant Growth Regulating Chemicals Louis G. Nickell, 2018-01-18 The purpose of this two volume work is to make available both to the investigator and user on a crop by crop basis the latest information on the use of chemicals to regulate plant growth and development Emphasis is given to the major crops and to those which the most success has been achieved Plant Growth Regulators in Agriculture And Horticulture, Their

Role and Commercial Uses Amarjit Basra, 2004 Meta-topolin: A Growth Regulator for Plant Biotechnology and Agriculture Naseem Ahmad, Miroslav Strnad, 2021-05-02 Plant tissue culture PTC technology has gained unassailable success for its various commercial and research applications in plant sciences Plant growth regulators PGRs are an essential part of any plant tissue culture intervention for propagation or modification of plants A wide range of PGRs are available including aromatic compounds that show cytokinin activities promote cell division and micro propagation viz kinetin N6 benzyladenine and topolins Topolins are naturally occurring aromatic compounds that have gained popularity as an effective alternative for other frequently used cytokinins in in vitro culture of plants Among them meta topolin 6 3 hydroxybenzlyamino purine is the most popular and its use in plant tissue culture has amplified swiftly During the last few decades there have been numerous reports highlighting the effectiveness of meta topolin in micropropagation and alleviation of various physiological disorders rooting and acclimatization of tissue culture raised plants **Plant Growth Regulators** .1985 Plant Growth Regulators (videorecording), 1982 Bioregulators, Chemistry and Uses Falk R. Rittig, 1984 Plant Growth Regulators for Agricultural and Amenity Use A. F. Hawkins, A. D. Stead, N. J. Pinfield, 1987 Regulators (PGRs): Types, Uses and Safety Qiang-Sheng Wu, Zhang De-jian, 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 Data for **Biochemical Research** Rex Malcolm Chaplin Dawson, 1986 Contains tables of biochemical compounds including synonyms formulas molecular weights physical properties and solubility Chemical Manipulation of Crop Growth and **Development** J S McLaren, 2013-10-22 Chemical Manipulation of Crop Growth and Development presents a critical review of the plant growth regulators in field crops It discusses the strategies to discover plant growth regulators for agronomic crops the methods of modifying stomatal movement and the possible use of chemicals for photorespiration control Some of the topics covered in the book are the hormonal control of photosynthesis and assimilate distribution manipulation of crop growth by ethylene and some implications of the mode of generation genetic and chemical manipulation of crops to confer

tolerance to chemicals and effects of allelochemicals on crop growth and development. The control of development of potato

plant by using endogenous and exogenous growth regulators is covered The analysis of crop physiology to assess plant growth regulation in sugar beet is also discussed An in depth analysis of the influence of auxin antagonists on pod and seed number is provided The effect of foliar applications of synthetic plant growth regulators on the agronomic characteristics of field growth corn is presented A chapter is devoted to the use and effect of cerone in developing winter barley The book can provide useful information to farmers botanists students and researchers

The Botanica ,1996

Advances in Plant

Hormones Research Chander Parkash Malik,1999

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web carol gray s the new social story book 2015 how to write a social story carol gray says you will need to picture the goal gather information and tailor the text picture the goal consider the social story s purpose for example the goal may be to teach a child to cover their mouth when coughing

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web social story about hitting and kicking may need to adapt last few pages to individual need associated standards what s this correlated standards what s this manage standards kimkeyser details language english uk last updated 5 23 2013 type boardmaker zip grade level 3 5 6 8 9 12 groups in not associated with any

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web provide simple steps when providing direction break the skill or situation down into simple steps your child can follow remember that kids on the autism spectrum are very literal so don t skip the steps your feel are implied as your child may not pick up on these nuances include social scripts

hitting social story by teach simple - Apr 26 2022

web this social story is to support children who are hitting others it explains that this behavior hurts others and is unacceptable these books should be used over and over to reinforce the point so i would suggest either putting the pages into a display book or laminating and binding them clipart images courtesy of kari bolt hitting social story 25 social stories to use in the mainstream classroom - Mar 06 2023

web at teach starter we have created 25 generic social stories to use with your class and the children with asd these social stories cover a range of situations from the classroom to the playground they can be taught to individual students or the whole class

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web the first and most important thing when writing a social story is that it needs to be short about 5 6 sentences by keeping the story short it is more likely that the student who is reading it

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web here are some sample social stories about hitting lesson course 2 2k views social stories for hitting story one i got in trouble today i got in trouble at school today we were lining

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web nov 27 2017 an amazing example of strategically using the features of a platform to tell your specific story in a meaningful and effective way share your examples there are so many great examples of social media storytelling out there both from brand and individuals that help launch ideas for ways to tweak and apply the strategy in a different

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web focus on one thing or event at a time only write about one topic per social story you do not want to overwhelm your child so pick one topic such as visiting the dentist for your social story and write only about that particular topic 3 use pictures to support the text

fact sheet 33 how to make and use social stories itac - Jan 04 2023

web some examples of social stories include keeping your hands and feet to yourself public and private e g getting changed at swimming lessons hitting and biting picking your nose an excursion a social story for each excursion the transition from one year or school to the next a change in routine e g from class to swimming lessons

hitting social stories happy learners - Aug 11 2023

web walking away telling an adult doing a calming activity finding a friend to talk to writing down what made us angry it is never ok to hit someone in school when we get angry with someone we can try to stay calm and follow school rules if i hit hitting is when i use my hands and arms to hurt someone

how to write a social story a step by step guide - Dec 03 2022

web looking to write a social story but not sure where to start this step by step guide will show you how to write a social story that is clear concise and effective

social story templates for anger primary resource twinkl - May 28 2022

web these social story templates for anger can help children carefully consider their behaviour and prepare action plans for when they feel frustrated talk through the stages with the child to show them what some of the triggers for their behaviour might be

how to write a social story 13 editable stories - Jun 09 2023

web types of social stories the following are the different types of social stories that can be used to accomplish grooming and self care skills e g how to wash hands brush teeth or get dressed social skills e g asking for help expected classroom

behaviors hitting or joining a group and academic skills

social stories pushing and hitting teaching resources tpt - Oct 01 2022

web no hitting or pushing using my hands social story includes a simple social story to teach students about not hitting others or not pushing others the story is designed to be compiled as a book with the story pages of 8.5×11 inch size the story is

social stories wikipedia - Jun 28 2022

web social stories were devised as a tool to help individuals with asd autistic spectrum disorder better understand the nuances of interpersonal communication so that they could interact in an effective and appropriate manner although the prescribed format was meant for high functioning people with basic communication skills the format was adapted