

NATURAL PLANT GROWTH INHIBITORS AND PHYTOHORMONES

Edited by

V. L. Kefeli



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Natural Plant Growth Inhibitors And Phytohormones

M.B. Jackson



Natural Plant Growth Inhibitors And Phytohormones:

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Natural Growth Inhibitors and Phytohormones in Plants and Environment V. Kefeli, M.V. Kalevitch, 2013-06-29 This book represents the authors lifetime dedication to the study of inhibitors and phytohormones as well as its practical applications for achieving a more sustainable agriculture Their work focuses on the functions of various groups of active molecules their direct effect upon plant growth but also implications for their impact upon the surrounding environment are explored The main idea of the book evolved from the need to determine a balance among natural growth inhibitors and phytohormones This approach was pursued through a better understanding of their biochemical pathways their effects on plants physiological functions and their influence upon stress factors on plant ontogenesis Therefore this effort proposes a more holistic approach to the study of plant physiology in which the plant soil interactions are discussed with a profound description of different allelochemicals and their effects on plants growth A rigorous attention is also paid to discuss the role of microorganisms in ecosystems and their capability to synthesize physiologically active substances which trigger also unique plant microbial interactions These synergies are leading scientists to the discovery of major breakthroughs in agriculture and pharmacology that are revolutionizing old epistemologies and thus contributing to the emergence of a

philosophy of interconnectedness for the whole biosphere *Natural Plant Growth Inhibitors and Phytohormones* ,1978

New Root Formation in Plants and Cuttings M.B. Jackson,2012-12-06 The formation of roots is in some respects one of the least fundamentally understood of all plant functions Propagation by cuttings is the aspect that will occur first to most gardeners and horticulturists and it is certainly the most useful application But any observant traveller in the tropics can notice that some trees have the habit of forming roots in the air Climbers like *Cissus* bear long fine strings of roots hanging down *Pandanus* trees tend to have stout aerial roots issuing from the bases of the long branches while the tangle of roots around the trunk of many of the *Ficus* species is characteristic In *Ficus bengalensis* in particular stout cylindrical roots firmly embedded in the ground from a height of 3 to 5 meters give support to the long horizontal branches enabling them to spread still further In the big old specimen at Adyar near Madras the spread of these branches all around the tree each with a strong root growing out every few meters makes a shaded area under which meetings of almost 5000 people are sometimes held The history of how the formation of roots on stem cuttings was found to be under hormonal control is worth repeating here

Herbicide Resistance — Brassinosteroids, Gibberellins, Plant Growth Regulators ,2012-12-06 Chemistry of Plant Protection Volume 7 provides critical review articles on new aspects of herbicide resistance serving the needs of research scientists pesticide manufacturers government regulators agricultural practitioners **Hormonal Regulation of Plant Growth and Development** S.S. Purohit,2012-12-06 The dynamic role of plant hormones in regulation of plant growth and development revealed by its control of rates of metabolic processes and various related enzymetic reactions at molecular and submolecular levels is now well established During the course of last 35 years endless development in agricultural biotechnology has provided immense literature to understand hormone regulated aspects of plant growth and development but plant physiologists all over the world are still devoting themselves and will continue for an indefinite period to disclose the mysteries of this regulation Volume I of this series has already been published and has been accepted well This encouraged me to edit a series of volumes I do not know the number on this subject In the following pages various aspects of hormone controlled physiological processes like Hormonal Control of protein synthesis in plants Auxin induced elongation Hormonal regulation of abnormal growth in plants Hormonal regulation of development in mosses Some phenolics as plant growth and morphogenesis regulators Plant growth regulating properties of sterol inhibiting fungicides Hormonal regulation of sex expression in plants Water relation and plant growth regulators Hormonal regulation of root development under water stress Gravity perception and responses mechanism in graviresponding cereal grass shoots Hormonal regulation of leaf Growth senescence in relation to stomatal movement and Chloroindole auxins of pea and related species have been included

Fundamentals of Biochemistry J.L. Jain et al.,2004-09 In this latest Seventh Edition five New Chapters No 28 29 33 36 and 37 have been added to enhance the scope and utility of the book three chapters pertain to Bioenergetics and Metabolism Biosynthesis of Nucleotides Degradation of Nucleotides Mineral Metabolism and two to Nutrition Biochemistry Principles of

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