

HORMONAL REGULATION OF PLANT GROWTH AND DEVELOPMENT

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Volume 2

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PREFACE

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 indifinite period to disclose the mystries 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.

The presentation of the review papers from vide spectrum of contributors will reflect the diverse background and recent advances in the field of plant hormone research. It is quite natural that when diverse experiences are pooled down in one volume -new ideas, criticism and directions for further research emerge. To the best of my knowledege, these volumes would rank amongst the few available edited works on the subject presenting various facets of plant life. If these volumes create an awareness, interest and understanding in budding researchers, teachers and readers, I will achieve my objectives.

I place on record my deep sence of gratitude to the rich array of the contributors and other plant physiologists who made this endeavour possible.

My grateful thanks are due to Mr. Ir. A. C. Plaizier, Publisher, Life Sciences Division, Martinus Nijhoff/Dr. W. Junk Publishers, Dordrecht, The Netherlands who has co-published Volume I of this series. I feel it pleasure to express my gratitude to Mrs. Saraswati, Proprietor, Agro Botanical Publishers (India) who has taken interest in publication of this series.

July, 1985.
Bikaner

S. S. Purohit

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