



Plant Growth and Development: Hormones and Environment

By Lalit M. Srivastava

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This book provides current information on synthesis of plant hormones, how their concentrations are regulated, and how they modulate various plant processes. It details how plants sense and tolerate such factors as drought, salinity, and cold temperature, factors that limit plant productivity on earth. It also explains how plants sense two other environmental signals, light and gravity, and modify their developmental patterns in response to those signals. This book takes the reader from basic concepts to the most up-to-date thinking on these topics.

- * Provides clear synthesis and review of hormonal and environmental regulation of plant growth and development

- * Contains more than 600 illustrations

supplementary information on techniques and/or related topics of interest

- * Single-authored text provides uniformity of presentation and integration of the subject matter

- * References listed alphabetically in each section

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Editorial Review

Review

"This book...is a considerable tour de force, a remarkable effort by one person, and I applaud the manner in which the author has co-opted more than 40 people from all over the globe to assist in strengthening a wide diversity of topics. The coverage is comprehensive leaving very few aspects of growth and development untouched...There is a healthy mix of older and new science employing a diversity of disciplines including physiology, biochemistry, genetics, mutants and molecular biology, all of which are well illustrated...The book will be a very valuable reference for many years to come and deserves a place in every library."

-Jake Jacobsen, CSIRO Plant Industry, Australia

"Without hesitation I can say that I am very impressed with both the breadth and depth of the subject matter...I find it quite remarkable that one author has achieved such an accomplished piece writing...This book fills a very important and long-standing requirement for a modern, readable and challenging text on plant growth and development."

-Derek Bowley, University of Guelph, Canada

"The author has filled this gap by writing an excellent, comprehensive book that addresses beginning graduate students and researchers in the plant sciences...I am convinced it will become a classic!"

-U. Kutschera, Universität Kassel, Germany

"The book covers a huge breadth of topics and ranges in depth of coverage from careful descriptions of basic principles and experimental techniques to accounts of some of the most recent research developments."

-Richard Hooley, University of Bath, U.K.

"This book should be favorably received by scientists both in and outside of plant growth and development field. Its coverage is extensive and up-to-date...I am amazed at [the author's] ability to keep up with so many fast-changing fields...In my opinion, it is a book that professors and graduate students in growth and development will want to have on their shelves."

-Robert E. Cleland, University of Washington, U.S.A.

From the Back Cover

Recent discoveries in plant growth and development, fueled by molecular and genetic techniques, have revolutionized plant biology. The pace of change has been rapid. New insights into hormonal homeostasis, hormonal and environmental regulation, and interactions among signaling pathways of hormones and environmental factors are gained each year. **Plant Growth and Development** is intended to prepare senior undergraduates and beginning graduate students for this fast-moving discipline. The text is organized into five sections: special aspects of plant growth and development; structure and metabolism of hormones; hormonal regulation of developmental and physiological processes; molecular basis of hormone action; and environmental regulation of growth. Suitable for an upper level or graduate course in hormonal and environmental plant physiology and/or plant growth and development, it will also be useful as a supplemental text for courses in agronomy, forestry, and horticulture. In addition, it is a reference for any scientist interested in plant growth, hormones, and development and/or the environmental factors that regulate plant life.

Related Titles

Nobel - Physicochemical and Environmental Plant Physiology, 2nd edition (1999, ISBN: 0-12-520025-0)
Kozlowski & Pallardy - Physiology of Woody Plants, 2nd edition (1997, ISBN: 0-12-424162-X)
Dickison - Integrative Plant Anatomy (2000, ISBN: 0-12-215170-4)
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About the Author
by Lalit M. Srivastava

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