

Phytohormones in Plant Biotechnology and Agriculture

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Edited by

Ivana Macháčková and Georgy A. Romanov



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Phytohormones In Plant Biotechnology And Agriculture

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Phytohormones in Plant Biotechnology and Agriculture Ivana Machácková, Georgy A. Romanov, 2003-11-30 The book brings the up to date information about some aspects of regulation of flowering especially about the role of gibberellins about agricultural aspects of cytokinin functioning namely their role in yield formation in cereals about some signalling systems involved in cytokinin auxin and ethylene signalling It contains a review on auxin transport and on transgenic plants with modified levels of auxins and several papers concerning hormones and stress or hormones and cellular structures As the workshop was held in Moscow the book represents also a good source of information about research in Russia in the field of phytohormones

Phytohormones in Plant Biotechnology and Agriculture Ivana Machackova, Georgy A. Romanov, 2014-01-15

New Insights Into Phytohormones Basharat Ali, Javed Iqbal, 2024-03-06 Plants like all living organisms communicate through a sophisticated language that is often hidden from the naked eye At the heart of this intricate communication network are phytohormones the silent orchestrators of growth development and response to environmental cues In New Insights into Phytohormones we embark on a journey deep into the molecular realm of plants unraveling the mysteries of these powerful signaling molecules Dive into the fascinating world of phytohormones as this book takes you on an exploration of their roles in plant physiology from germination to senescence Gain a comprehensive understanding of how these chemical messengers coordinate processes such as cell elongation flowering and stress responses Through the lens of cutting edge research and real world applications discover the practical implications of harnessing phytohormones for agriculture horticulture and beyond

Biological Applications of Nanoparticles Biplab Sarkar, Avinash Sonawane, 2023-12-12 This textbook for graduate and postgraduate students provides comprehensive applications of nanoparticles in medicine agriculture and environmental sciences The initial chapter covers basic topics related to types synthesis structure and properties of various nanoparticles It further discusses the wide range of applications of nanoparticles in medicine agriculture and the environment The book presents nano electronic biosensors that are used to diagnose and monitor the progression of human diseases It summarizes the opportunities and challenges of nanotechnology in the agriculture and food sector highlighting the scientific technical regulatory safety and societal impacts Additionally it illustrates the applications of nanotechnology in the field of aquaculture medicine bioinformatics and food technology The textbook examines the development and administration of nano medicines their applications advantages and limitations for the treatment and prophylaxis of a broad range of diseases Lastly the textbook explores the recent advances in the field of nanobusiness and nanotechnology issues in intellectual property management IPR

Nanobiotechnology for Abiotic Stress Adaptation and Mitigation in Agricultural Crops Azamal Husen, 2025-10-13 Nanobiotechnology has emerged as an innovative and rapidly advancing field that combines the progress of nanotechnology with biological sciences especially cellular and molecular biology Several metal and metal oxide nanoparticles NPs have shown great potential in

boosting the performance of agricultural crops under challenging conditions NPs enhance plant resistance to stress by strengthening physical barriers facilitating the uptake and transport of essential minerals and nutrients improving photosynthetic efficiency increasing the synthesis of anti stress compounds and modulating hormone balance mainly auxins and gibberellins thereby promoting plant tolerance to various abiotic stresses Due to their high surface energy and large surface to volume ratio NPs exhibit superior bioavailability and bioactivity compared to their bulk counterparts This book offers readers a thorough up to date overview of how NPs impact crop responses at the molecular cellular metabolic biochemical and physiological levels particularly under stressful conditions In terms of physiology NPs enhance stomatal behavior boost photosynthesis improve water use efficiency and promote seed germination and growth Biochemically they alter metabolite profiles reduce the accumulation of reactive oxygen species and increase the activity of various antioxidant enzymes NPs also improve lipid protein and glucose metabolism as well as better regulate secondary metabolites like flavonoids and phenolics At the cellular level NPs help maintain osmotic balance ion homeostasis and membrane stability On a molecular level they affect stress responsive transcription factors influence gene expression and impact signaling pathways such as calcium signaling However NPs can also have negative phytotoxic effects such as inhibiting germination stunting plant growth disrupting cellular metabolism through oxidative stress and damaging proteins and DNA ultimately leading to reduced crop yield and performance These adverse effects are typically observed at higher NP concentrations though they can vary by plant species Therefore it is essential to standardize different NP formulations concentrations and delivery methods for various crop plants This book is an invaluable resource for advanced students faculty scientists and researchers in fields such as nanobiotechnology plant biology plant biochemistry plant physiology plant stress physiology plant microbiology soil microbiology agricultural sciences botanical and crop sciences environmental botany and related disciplines

Mechanisms of Abiotic Stress Responses and Tolerance in Plants: Physiological, Biochemical and Molecular Interventions, volume II Shabir Hussain Wani,Guo-Liang Jiang,Mohammad Anwar Hossain,David John Burritt,Hatem Rouached,Fulai Liu,2023-10-09

Biotechnology, Agriculture and the Food Industry Gennadii Efremovich Zaikov,2006

Biotechnology Agriculture the Food Industry

Nanobiotechnology for Agricultural Sciences J. C. Tarafdar,Deepak Kumar,Sanjay K. Singh,Krishna Pal Singh,2025-07-11 Nanotechnology can provide effective solutions to address difficulties in agricultural production This new volume brings together the most recent findings in agricultural nanotechnology as a smart delivery system for crop enhancement It reports on state of the art advances in nanotechnology for agricultural applications emphasizing the biogenic synthesis of nano agri input products NAIPs and technology s economic potential in the establishment of sustainable agriculture

Enhanced Crop Production Setup Under Various Micro and Nano Contaminants Azamal Husen,2025-12-01 This book explores the uptake toxicity and tolerance of various contaminants in crop plants and discusses genetic and molecular methods as well as biological tools to improve plant growth under

contamination stress The book also covers defense mechanisms in plants using phytohormones and nanomaterials along with safety concerns related to micro and nano contaminants Contaminants in soil crop plant systems pose a significant challenge to sustainable agriculture environmental health and food security These pollutants such as herbicides insecticides fungicides salts nanomaterials and toxic metals like cadmium lead mercury and arsenic can enter the food chain through contaminated soil and crops These substances can damage plants alter their growth processes and compromise their integrity As a result the persistence of such chemicals within the ecosystem can remain unchanged affecting plant health and soil quality This book looks at the effective management practices for the use and disposal of contaminants that are essential to limit their harmful dynamics It highlights the various interventions for the their tolerance and survival mechanisms of plants against contaminants that can disrupt morpho physiological and biochemical It also highlights the use of signaling molecules phytohormones plant nutrients bioaugmented agents and nanomaterials that can support plants in coping with contamination improving growth and productivity This book is a good resource for upper level students faculty scientists and researchers working especially in nanobiotechnology plant biology plant biochemistry botanical or crop sciences environmental sciences ecological sciences and other allied subjects and or science

Breeding of Ornamental Crops: Annuals and Cut

Flowers Jameel M. Al-Khayri, Shri Mohan Jain, Muneeb Ahmad Wani, 2025-02-08 Flowers and other ornamental plants are used for all occasions to meet consumers demands preferably novel flowers traits e g fragrance flower color and shape early flowering less water consumption long shelf life The worldwide floricultural industry is worth over 50 billion Euros and can serve as a food security socio economic impact and generate employment Ornamental industry is regarded as one of the fastest growing farm industries This industry is sustained through novelty thus there is increasing demand on plant breeders in both public and private sectors to fulfil consumer s needs Biotechnological approaches such as genetic transformation genomics nanotechnology and gene editing are well suited for designing custom made novel traits of flowers benefiting both ornamental and cosmetic industry Moreover micropropagation is well exploited commercially for large scale plant production along with vertical and digital farming and artificial intelligence especially by the floriculture industry This book focuses on advances in breeding strategies of diverse range of ornamental plants It consists of 2 parts Part I Flowering annuals and Part II Cut flowers Each chapter contributed by eminent authors is devoted to an individual ornamental species or a group of related species It provides an in depth understanding of modern breeding strategies including traditional methods and biotechnological approaches Topics covered in each chapter in relation to the subject species include current cultivation practices and challenges germplasm biodiversity and conservation traditional breeding molecular breeding tissue culture applications genetic engineering and gene editing mutation breeding hybridization and future research directions Major concepts are illustrated with color photos

Acta Physiologiae Plantarum, 1978

Agricultural Biotechnology in

Focus in the Netherlands J. J. Dekkers, H. C. van der Plas, D. H. Vuijk, 1990

Dynamics of Agricultural Biotechnology A.

S. Chandel,1995 **Plant Growth Regulator Abstracts** ,1996 **Agricultural Chemistry & Biotechnology** ,1999

Role of Antioxidants in Mitigating Plant Stress Azamal Husen,2025-07-01 Role of Antioxidants in Mitigating Plant Stress explores the fundamental roles and mechanistic approaches of antioxidant stress tolerance strategies With chapters addressing both enzymatic and non enzymatic antioxidants it provides a clear guide for understanding plant responses Presenting current understanding of these components the book features their role molecular properties and reaction mechanisms to various environmental conditions This book provides an important reference for researchers and advanced level students seeking to improve plant health Plants are regularly exposed to various kinds of abiotic and biotic stresses in their natural environmental conditions These stresses have significant influence on agriculture worldwide and thus lead to massive economic losses as well as food insecurity Research has identified many of the effects of and mitigation techniques for various stresses that impact plant systems Strategies for strengthening the antioxidant defense system can increase yields and protect crop plants from a variety of stresses Discusses the modulation of antioxidant systems that enable plants to initiate short and long term mitigation responses Examines the potential of non enzymatic and enzymatic antioxidants in stress response Explores coordination of antioxidants plant hormones and PGPR for higher plant performance under various stresses **Russian Journal of Plant Physiology** ,1996 **Veröffentlichungen** Max-Planck-Gesellschaft zur Förderung der Wissenschaften,1998 **Indonesian Journal of Agricultural Science** ,2011 **American Book Publishing Record** ,2004

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