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H. Sandermann (Ed.)

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Heinrich Sandermann



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Molecular Ecotoxicology of Plants Heinrich Sandermann, 2013-06-29 A well structured and comprehensive summary of the strategies and several case studies for applying molecular plant genomics in the fields of plant ecotoxicology and plant ecology With an increasing number of plant genome projects now being completed there arises the need to develop plant functional genomics The book concentrates on ecological functions and relates molecular stress responses and signalling pathways to environmental interactions This paves the way for uncovering new mechanisms of plant fitness population dynamics and evolution and new possibilities for plant breeding and sustainable agriculture Topics covered include definition and up scaling of molecular ecotoxicology signalling substances enzymes and genes involved in defence against pathogens xenobiotics ozone UV B and further environmental stressors and manipulation of plant signal transduction by soil bacteria

Growth and Defence in Plants R. Matyssek, Hans Schnyder, Wolfgang Oßwald, Dieter Ernst, Jean Charles Munch, Hans Pretzsch, 2012-09-14 Plants use resources i e carbon nutrients water and energy either for growth or to defend themselves from biotic and abiotic stresses This volume provides a timely understanding of resource allocation and its regulation in plants linking the molecular with biochemical and physiological level processes Ecological scenarios covered include competitors pathogens herbivores mycorrhizae soil microorganisms carbon dioxide ozone regimes nitrogen and light availabilities The validity of the Growth Differentiation Balance Hypothesis is examined and novel theoretical concepts and approaches to modelling plant resource allocation are discussed The results presented can be applied in plant breeding and engineering as well as in resource efficient stand management in agriculture and forestry Plant Toxicology Bertold Hock, Erich F. Elstner, 2004-09-28 In order to keep track of all the compounds and pathogens affecting plant metabolism and development you would need to spend all your waking hours combing periodicals and the Internet in dozens of languages as new toxins via pollutants and migratory or mutant pathogens are being discovered every day Plant Toxicology Fourth Edition start *Applied Bioengineering* Toshiomi Yoshida, 2017-01-12 A comprehensive overview of the topic highlighting recent developments ongoing research trends and future directions Experts from Europe Asia and the US cover five core areas of imminent importance to the food feed pharmaceutical and water treatment industries in terms of sustainable and innovative processing and production In the field of enzyme engineering they summarize historic developments and provide an overview of molecular enzyme engineering while also discussing key principles of microbial process engineering including chapters on process development and control Further sections deal with animal and plant cell culture engineering The final section of the book deals with environmental topics and highlights the application of bioengineering principles in waste treatment and the recovery of valuable resources With its cutting edge visions extensive discussions and unique perspectives this is a ready reference for biotechnologists bioengineers biotechnological institutes and environmental chemists

Advances in Botanical Research , 2005-09-27 Edited by J A Callow and supported by an international Editorial Board

Advances in Botanical Research publishes in depth and up to date reviews on a wide range of topics in plant sciences. Currently in its 42nd volume the series features a wide range of reviews by recognized experts on all aspects of plant pathology, physiology and ecology. This eclectic volume features five reviews on cutting edge topics of interest to incorporate advances in plant pathology. Includes most advanced reviews by distinguished researchers. Covers topics such as the impact of molecular data in fungal systematics and chloroplast control of nuclear gene expression.

Bacteria in Agrobiology: Stress Management Dinesh K. Maheshwari, 2012-01-05. The future of agriculture strongly depends on our ability to enhance productivity without sacrificing long term production potential. An ecologically and economically sustainable strategy is the application of microorganisms such as the diverse bacterial species of plant growth promoting bacteria (PGPB). The use of these bio resources for the enhancement of crop productivity is gaining worldwide importance. Bacteria in Agrobiology: Stress Management covers the major aspects on PGPR in amelioration of both abiotic and biotic stresses. PGPR mediated in priming of plant defense reactions, nutrient availability and management in saline and cold environment, hormonal signaling, ACC deaminase and its role in ethylene regulation under harsh conditions are suitably described.

Symbiotic Endophytes Ricardo Aroca, 2013-09-07. This Soil Biology volume examines our current understanding of the mechanisms involved in the beneficial effects transferred to plants by endophytes such as rhizobial, actinorhizal, arbuscular mycorrhizal symbionts and yeasts. Topics presented include how symbiosis starts on the molecular level, chemical signaling in mycorrhizal symbiosis, genomic and functional diversity of endophytes, nitrogen fixation, nutrient uptake and cycling as well as plant protection against various stress conditions. Further, the use of beneficial microorganisms as biopesticides is discussed, particularly the application of Plant Growth Promoter Rhizobacteria (PGPR) in agriculture with the aim to increase yields.

Environmental Technology and Resource Utilization II Lan He Zhang, 2014-10-08. Selected peer reviewed papers from the 2014 2nd International Conference on Renewable Energy and Environmental Technology (REET 2014) August 19-20, 2014 Dalian, China.

Root Biology Bhoopander Giri, Ram Prasad, Ajit Varma, 2018-05-01. The book Root Biology, written by experts in the field, covers latest research on cellular, genetic, physiological and ecological developmental facets of root growth as well as the interaction of root with an array of microbes, whether for the establishment of symbiosis, increasing plant growth or protecting plant from pathogens/attackers. Plant roots provide an excellent model to study physiological, developmental and metabolic processes at a system level. Root system architecture, an excellent creation of nature, is closely interconnected with the availability of soil nutrients. Several strategies, including biotechnological interventions, are gaining interest and importance for sustainable food production and enhanced resource acquisition. Such strategies have largely focused on root traits for efficient utilization of soil resources. The biotechnological application of root biology is expected to promote the production of food while maintaining ecologically and economically sustainable production systems. With a fortune of information on technical and experimental aspects useful in the laboratory, this extensive book is a valuable resource for

researchers academicians and students in the broad field of microbiology plant and fungal biology

Plant-Growth-Promoting Rhizobacteria (PGPR) and Medicinal Plants Difuza Egamberdieva, Smriti Shrivastava, Ajit Varma, 2015-02-07 This book describes the various applications of microorganisms in improving plant growth health and the efficiency of phytochemical production. The chapters trace topics such as the role of PGPRs in improving salt stress and heavy metal tolerance in plants, the prevention and control of plant diseases, boosting soil fertility and agriculture productivity, the induction of secondary metabolite biosynthesis in medicinal and aromatic plants, the enhancement of phytochemical levels, and the action mechanisms, diversity, and characterization of PGPRs. The reviews will be of interest for scientists in the fields of agriculture, microbiology, soil biology, plant breeding, and herbal medicinal products.

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