Fisiologia Vegetal Taiz Y Zeiger

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BANKS MCMAHON

New and Future Developments in Microbial Biotechnology and Bioengineering BoD – Books on Demand
Este livro tem o objetivo de alcançar maior clareza nas explicações e atualização nas informações; as ilustrações e as fotos são apresentadas em cores mais vivas; um glossário foi adicionado ao final do livro; e também oferece, entre outros itens, artigos sobre temas de vanguarda escritos por especialistas. Foram incorporados, ainda, novos avanços que refletem o progresso da biologia vegetal na era “pós-genômica”. Estudantes de ciências biológicas, agronomia, ciências florestais, farmácia e áreas afins, bem como a profissionais ligados a esses ramos de conhecimento, se beneficiarão desta obra.
Jatropha, Challenges for a New Energy Crop Garland Science
Este manual bilingüe proporciona respuestas básicas sobre procedimientos que se realizan 'in vitro' con células vegetales utilizando cuestiones e ilustraciones. Se explican, entre otros, sistemas de micropropagación, crioconservación, mutagénesis y obtención de plantas transgénicas. Las aplicaciones de esta metodología incluyen, por ejemplo, la conservación de la diversidad genética, el incremento de resistencia al estrés medioambiental, la mejora de productos vegetales y la agricultura molecular, es decir, la utilización de plantas como fábricas de productos de interés biotecnológico. This bilingual manual provides basic answers on procedures performed 'in vitro' with plant cells by the use of questions and illustrations. Systems for micropropagation, cryopreservation, mutagenesis and production of transgenic plants are explained, along with others. Applications of this methodology include, for example, conservation of genetic diversity, increased resistance to environmental stress, improvement of plant products and molecular farming, i.e. the use of plants as factories for making products of biotechnological interest.
Soil Water Deficit and Physiological Issues in Plants Fisiología vegetal
"Plant Physiology, Fifth Edition continues to set the standard for textbooks in the field, making plant physiology accessible to virtually every student. Authors Lincoln Taiz and Eduardo Zeiger have again collaborated with a stellar group of contributing plant biologists to produce a current and authoritative volume that incorporates all the latest findings. Changes for the new edition include: A newly updated chapter (Chapter 1) on Plant Cells, including new information on the endomembrane system, the cytoskeleton, and the cell cycle, A new chapter (Chapter 2) on Genome Structure and Gene Expression, A new chapter (Chapter 14) on Signal Transduction. Updates on recent developments in the light reactions and the biochemistry of photosynthesis, respiration, ion transport, and water relations. In the phytochrome, blue-light, hormone and development chapters, new information about signaling pathways, regulatory mechanisms, and agricultural applications. Coverage of recent breakthroughs on the control of flowering. Three new Appendices on Concepts of Bioenergetics, Plant Kinematics, and Hormone Biosynthetic Pathways As with prior editions, the Fifth Edition is accompanied by a robust Companion Website. New material has been added here as well, including new Web Topics and Web Essays."--P. 4 de la couv.
Deficit Irrigation Sinauer Associates Incorporated
Central Amazonian floodplain forests are an unique and endangered ecosystem. The forests grow in areas that are annually flooded by large rivers during mean periods of up to 8 months and at depths of up to 10 m. Despite this severe stress, these forests consist of over 1,000 species and are by far the most species-rich floodplain forests worldwide. The trees show a broad range of morphological, anatomical, physiological, and phenological adaptations that enable them not only to survive the adverse environmental conditions, but also to produce large amounts of biomass when the nutrient levels in water and soils are sufficiently high. This is the case in the floodplains of white-water rivers, which are used for fisheries, agriculture, and cattle-ranching but which also have a high potential for the production of timber and non-timber products, when adequately managed. Latest research on ecophysiology gives insight how tree species adapt to the oscillating flood-pulse focusing on their photosynthesis, respiration, sap flow, biochemistry, phenology, wood and leave anatomy, root morphology and functioning, fruit chemistry, seed germination, seedling establishment, nitrogen fixation and genetic variability. Based on tree ages, lifetime growth rates and net primary production, new concepts are developed to improve the sustainability of traditional forest managements in the background of an integrated natural resource management. This is the first integrative book on the functioning and ecologically oriented use of floodplain forests in the tropics and sub-tropics.It provides fundamental knowledge for scientist, students, foresters and other professionals on their distribution, evolution and phytogeography. “This book is an excellent testimony to the interdisciplinary collaboration of a group of very dedicated scientists to unravel the functioning of the Amazonian Floodplain forests. They have brought together a highly valuable contribution on the distribution, ecology, primary production, ecophysiology, typology, biodiversity, and human use of these forests offering recommendations for sustainable management and future projects in science and development of these unique wetland ecosystems. It lays a solid scientific foundation for wetland ecologists, foresters, environmentalists, wetland managers, and all those interested in sustainable management in the tropics and subtropics.” Brij Gopal, Executive Vice President International Society for Limnology (SIL).
Plant Nutrient Dynamics in Stressful Environments Academic Press
Se trata de la primera versión en castellano de la gran obra Plant Physiology (third edition), uno de los mejores libros de fisiología vegetal, referente imprescindible para investigadores y estudiantes, que en esta edicion se presenta en dos volumenes y CD Rom
Environmental Stresses in Soybean Production Woodhead Publishing
Destinado a quem busca uma introdução acessível à área, Fundamentos de fisiologia vegetal apresenta o alto padrão de precisão científica e a riqueza pedagógica pelos quais o popular Fisiologia e desenvolvimento vegetal, dos mesmos autores, é conhecido, mas em formato conciso, constituindo-se em recurso valioso para professores e estudantes que desejam focar na fisiologia vegetal básica, sem se aprofundar na genética do desenvolvimento.
New Technologies, Challenges and Opportunities Springer Science & Business Media
Heat Stress In Food Grain Crops: Plant Breeding and Omics Research is a timely compilation of advanced research on heat stress affecting crop yield, plant growth & development of common food grain and cereal crops. Chapters in the book cover several aspects of crop science including the identification of potential gene donors for heat tolerance, physiological mechanisms of adaptation to heat stress, the use of conventional and modern tools of breeding for imparting tolerance against terminal temperature stress and precise mapping of heat tolerant QTLs through biparental and genome wide association mapping. The use of genomics and phenomics methods is focused on through chapters dedicated to important crops such as groundnut, pearl millet, maize, chickpea, mungbean and wheat. Authors of the respective chapters explain the importance of harnessing a diverse crop genepool for sustaining crop production under conditions of increasing heat stress. Readers will be able to understand the relevance of functional genomics in elucidating candidate genes and their regulatory functions contributing to heat tolerance
Biostimulants in Plant Science John Wiley & Sons
New and Future Developments in Microbial Biotechnology and Bioengineering: Sustainable Agriculture: Advances in Microbe-Based Biostimulants describes advances in microbial mechanisms involved in crop production and stress alleviation. Recent developments in our understanding of the role of microbes in sustainable agriculture and disease management have created a highly potential research area. The plant holobiont has a significant role in stress signaling, nutrient use efficiency,

and soil health and fertility for sustainable developments. The mycorrhizosphere, hyphosphere, phyllosphere, rhizosphere and endosphere are critical interfaces for the exchange of signaling and resources between plants and soil environment.? This book is an ideal reference source for microbiologists, agrochemists, biotechnologists, biochemists, industrialists, researchers and scientists working on agriculturally important microorganisms and their exploitation in sustainable future applications. Gives insights into mechanisms of plant-microbe interaction Introduces new aspects and advances in plant-microbe interaction for disease management Includes descriptions and modern practices on how to harness the potential of microbes in sustainable agriculture applications

From Basic Concepts to Applied Outcomes Sinauer Associates Incorporated

This book covers the most recent advances in all the topics with which researchers and professionals need to be familiar in order to obtain a better understanding of, and to better exploit, beneficial plant-microbe interactions. The use of microorganisms for agriculture and environmental applications is gaining importance worldwide to improve crop performance, but also for other environmental applications, such as bioremediation in chemically polluted soils. The search for an equilibrium between fundamental and applied aspects makes this book useful for professionals at various levels in the value chain of the “microbial biofertilizers”. Challenges of comercializing biofertilizers involve efficiency of the products and safety for human health and the environment, topics that have paid central attention in this book. Students, scientists and biofertilizers developers will find updated and comprehensive information about the different aspects to be considered to address a successful introduction of biofertilizers in sustainable agriculture and environmental actions.

Fisiología vegetal MDPI

Environmental Stress Conditions in Soybean Production: Soybean Production, Volume Two, examines the impact of conditions on final crop yield and identifies core issues and methods to address concerns. As climate and soil quality changes and issues continue to manifest around the world, methods of ensuring sustainable crop production is imperative. The care and treatment of the soil nutrients, how water availability and temperature interact with both soil and plant, and what new means of crop protection are being developed make this an important resource for those focusing on this versatile crop. The book is a complement to volume one, Abiotic and Biotic Stresses in Soybean Production, providing further insights into crop protection. Presents insights for addressing specific environmental stress conditions in soybean production, including soil, atmospheric, and other contributing factors Facilitates translational methods based on stress factors from around the world Examines the future of soybean production challenges, including those posed by climate change Complements volume one, Abiotic and Biotic Stresses in Soybean Production, providing further insights into crop protection

Volume 3: A Sustainable Multipurpose Crop Universitat Jaume I

The book Potassium - Improvement of Quality in Fruits and Vegetables Through Hydroponic Nutrient Management provides useful information regarding potassium nutrition management in hydroponic cultivation, which will help in producing quality horticultural crops. The first few chapters describe the role of potassium nutrition in plants, its interaction with other nutrients, its source fertilizers, the role in postharvest produce qualities, and human nutrition. Potassium fertilizer management, its metabolism in plants, and cultivation techniques of fruits and leafy vegetables are also included in the middle section. The final chapter illustrates the software development for the calculation of hydroponic nutrients including potassium for easy management of cultural solution. As a whole, this book covers several major aspects on the topic for making it a complete and useful resource.

Soil Fertility Academic Press

This third edition provides the basics for introductory courses on plant physiology without sacrificing the more challenging material sought by upper division and graduate level students. The text contains many new or revised figures and photographs, all in full colour. A website, referenced throughout the text, includes additional study questions, WebTopics (elaborating on selected topics discussed in the text), WebEssays (discussions of cutting edge research topics, written by those who did the work) and additional suggestions for further reading. Key pedagogical changes to the text result in a shorter book. Advanced material from the second edition has been removed and posted at an affiliated Web site, while many new or revised figures and photographs, study questions and a glossary of key terms have been added. Despite the streamlining of the text, the third edition incorporates all the important developments in plant physiology, especially in cell, molecular and developmental biology.

Biological Nitrogen Fixation and Beneficial Plant-Microbe Interaction Benjamin-Cummings Publishing Company

During the past decade the biological sciences have experienced a period of unprecedented progress, and nowhere is the excitement of this new era more apparent than in the field of plant physiology. Innovations such as the patch clamp are unlocking the mysteries of membrane transport. Recombinant DNA techniques are providing new tools for understanding how light and hormones regulate gene expression and development.

Plant Physiology and Development Springer Nature

Phytotherapy is probably the oldest form of medicine; however, it represents a new therapeutic tool for healthcare workers. Indeed plants are an infinite source of novel molecules, with countless possible combinations. This collection of articles (a Special Issue from Molecules) brings together the most up-to-date studies on the use of plant-derived compounds, ranging from their anti-inflammatory, antioxidant, and anticancer effects to the revision of the prominent literature.

The Molecular Life of Plants Springer

Biocontrol and Secondary Metabolites: Applications and Immunization for Plant Growth and Protection covers established and updated research on emerging trends in plant defense signaling in, and during, stress phases. Other topics cover growth at interface as a sustainable way of life and the context of human welfare and conservation of fungi as a group of organisms. Further, the book explores induced systemic resistance using biocontrol agents and/or secondary metabolites as a milestone for sustainable agricultural production, thus providing opportunities for the minimization or elimination of the use of fungicides. Presents an overview on mechanisms by which plants protect themselves against herbivory and pathogenic microbes Identifies the use of immunization as a popular and effective alternative to chemical pesticides Explores how these fungi help crop plants in better uptake of soil nutrients, increase soil fertility, produce growth promoting substances, and secrete metabolites that act as bio-pesticides

Biocontrol Agents and Secondary Metabolites unipampa

Experience shows that biotic stresses occur with different levels of intensity in nearly all agricultural areas around the world. The occurrence of insects, weeds and diseases caused by fungi, bacteria or viruses may not be relevant in a specific year but they usually harm yield in most years. Global warming has shifted the paradigm of biotic stresses in most growing areas, especially in the tropical countries, sparking intense discussions in scientific forums. This book was written with the idea of collecting in a single publication the most recent advances and discoveries concerning breeding for biotic stresses, covering all major classes of biotic challenges to agriculture and food production. Accordingly, it presents the state-of-the-art in plant stresses caused by all microorganisms, weeds and insects and how to breed for them. Complementing Plant Breeding for Abiotic Stress Tolerance, this book was written for scientists and students interested in learning how to breed for biotic stress scenarios, allowing them to develop a greater understanding of the basic mechanisms of resistance to biotic stresses and develop resistant cultivars.

Plant Physiology Academic Press

Published by Sinauer Associates, an imprint of Oxford University Press. Throughout its twenty-two year history, the authors of Plant Physiology and Development have continually updated the book to incorporate the latest advances in plant biology and implement pedagogical improvements requested by adopters. This has made Plant Physiology and Development the most authoritative, comprehensive, and widely-used upper-division plant biology textbook.

Heat Stress In Food Grain Crops: Plant Breeding and Omics Research BoD – Books on Demand

The new edition of this annual publication (previously published solely by IFOAM and FiBL) documents recent developments in global organic agriculture. It includes contributions from representatives of the organic sector from throughout the world and provides comprehensive organic farming statistics that cover surface area under organic management, numbers of farms and specific information about commodities and land use in organic systems. The book also contains information on the global market of the burgeoning organic sector, the latest developments in organic certification, standards and regulations, and insights into current status and emerging trends for organic agriculture by continent from the worlds foremost experts. For this edition, all statistical data and regional review chapters have been thoroughly updated. Completely new chapters on organic agriculture in the Pacific, on the International Task Force on Harmonization and Equivalence in Organic Agriculture and on organic aquaculture have been added. Published with IFOAM and FiBL

Ecophysiology, Biodiversity and Sustainable Management MDPI

Fisiología vegetalUniversitat Jaume I

Soybean Production Volume 2 Sinauer Associates, Incorporated

Soil Fertility book presents nine chapters written by renowned soil fertility experts from Africa, Asia and South America. The book is divided into two sections. Section 1, Biological Processes and Integration of Inorganic and Organic Fertilizers for Soil Fertility Improvement, examines biological processes that can enhance the soil fertility. It discusses the use of both organic and inorganic fertilizers and their integration in improving soil fertility. The second section, Improving Fertilizer Recommendation and Efficiency, looks at the state-of-the-art in leaf sampling and analysis. Proper leaf sampling and standardized methods of analysis are important steps in providing good recommendations.

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