

# Plant Biotechnology Journal

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Volume 22 • Issue 3 • March 2024



WILEY

[www.plantbiotechjournal.com](http://www.plantbiotechjournal.com) | ISSN 1467-7644

# Journal Of Plant Biotechnology

**David B. Collinge, Lisa Munk, B. Michael  
Cooke**



## **Journal Of Plant Biotechnology:**

**Global Roots of Innovation in Plant Biotechnology** World Intellectual Property Organization, 2019-11-08 Innovation in agricultural biotechnology has the potential to increase agricultural productivity and quality ultimately raising incomes for farmers across the world Advances in the field have produced crops that are resistant to certain diseases that result in higher yield than before that can grow in extreme soil conditions such as in arid and salty environments and even those that are infused with nutrients Moreover the technology has been hailed as a potential solution to addressing global issues of hunger and poverty It therefore follows that innovation in this field finds strong support from the public sector as well as the private sector This paper traces the evolution of the global innovation landscape of plant biotechnology over the past couple of decades Drawing on information contained in patent documents and scientific publications it identifies the sources of innovation in the field where they are located and demonstrates how these innovative centers connect to one another There are three important findings First the global innovation network of agricultural biotechnology showcases a prime example of how innovation activities spread to many parts of the world Second while there are more countries participating in the innovation network most of these innovation centers are concentrated in the urban areas and away from the rural where most of the transgenic crops are harvested Third the increasing need for collaboration between the private and public sectors to bring the invention to the market may have effect on how the returns to innovation are appropriated *Plant Biotechnology* Nigel G. Halford, 2006-02-17 Provides a comprehensive coverage of the current and future scientific developments in GM crops with a consideration of the key social and environmental issues *Plant Biotechnology and Agriculture* Arie Altman, Paul Michael Hasegawa, 2012 As the oldest and largest human intervention in nature the science of agriculture is one of the most intensely studied practices From manipulation of plant gene structure to the use of plants for bioenergy biotechnology interventions in plant and agricultural science have been rapidly developing over the past ten years with immense forward leaps on an annual basis This book begins by laying the foundations for plant biotechnology by outlining the biological aspects including gene structure and expression and the basic procedures in plant biotechnology of genomics metabolomics transcriptomics and proteomics It then focuses on a discussion of the impacts of biotechnology on plant breeding technologies and germplasm sustainability The role of biotechnology in the improvement of agricultural traits production of industrial products and pharmaceuticals as well as biomaterials and biomass provide a historical perspective and a look to the future Sections addressing intellectual property rights and sociological and food safety issues round out the holistic discussion of this important topic Includes specific emphasis on the inter relationships between basic plant biotechnologies and applied agricultural applications and the way they contribute to each other Provides an updated review of the major plant biotechnology procedures and techniques their impact on novel agricultural development and crop plant improvement Takes a broad view of the topic with discussions of practices in many countries **Israel Journal of Plant**

**Sciences** ,2009      **Polyamines in Plant Biotechnology, Food Nutrition and Human Health** Rubén Alcázar,Ana Margarida Fortes,Antonio F. Tiburcio,2020-03-24      Plant Biotechnology Adrian Slater,Nigel Scott,Mark Fowler,2008-03-27 Plant Biotechnology presents a balanced objective exploration of the technology behind genetic manipulation and its application to the growth and cultivation of plants The book describes the techniques underpinning genetic manipulation and makes extensive use of case studies to illustrate how this influential tool is used in practice      **Multigenic and Induced Systemic Resistance in Plants** Tuzun Sadik,Bent Elizabeth,2006-10-26 Plants have developed very sophisticated mechanisms to combat pathogens and pests using the least amount of reserved or generated energy possible They do this by activating major defense mechanisms after recognition of the organisms that are considered to be detrimental to their survival therefore they have been able to exist on Earth longer than any other higher organisms It has been known for the past century that plants carry genetic information for inherited resistance against many pathogenic organisms including fungi bacteria and viruses and that the relationship between pathogenic organisms and hosts plants are rather complex and in some cases time dependent This genetic information has been the basis for breeding for resistance that has been employed by plant breeders to develop better yielding disease resistant varieties some of which are still being cultivated Single gene resistance is one type of resistance which has been extensively studied by many research groups all around the world using biotechnological methodologies that have been the subject of many books and journal articles therefore it is beyond the scope of this book This type of resistance is very effective although it can be overcome by the pressure of pathogenic organisms since it depends on interaction of a single elicitor molecule from the pathogen with a single receptor site in the host      *Fulltext Sources Online* ,2007-07      Sustainable disease management in a European context David B. Collinge,Lisa Munk,B. Michael Cooke,2009-01-23 The main theme of the book is sustainable disease management in a European context Some of the questions addressed are How does society benefit from plant pathology research How can new molecular approaches solve relevant problems in disease management What other fields can we exploit in plant pathology research What challenges are associated with free trade across the new borders How can we contribute to solving problems of developing countries How does plant pathology contribute to food quality and safety How does globalization internationalization affect teaching and extension in plant pathology      Journal of Plant Biology ,2004      **Plant Biotechnology and Transgenic Plants** Kirsi-Marja Oksman-Caldentey,Wolfgang H. Barz,2002-08-14 Contains case studies illustrating the cell culture production of pigments flavors and antineoplastic compounds Plant Biotechnology and Transgenic Plants covers topics that range from food to fragrances to fuel It includes discussions of technologies and research on the engineering synthesis utilization and control of primary and secondary pl      **Plant Biotechnology** Pravin Chandra Trivedi,2000 Contributed articles      **Metabolic Engineering in Plants** Tariq Aftab,Khalid Rehman Hakeem,2022-06-01 This edited book highlights the plant and cell organ culture systems and environmental and genetic transformation based

modulation of biochemical pathways Special focus is given to microRNA based technology heterologous systems expression of enzymes and pathways leading to products of interest as well as applications using both model and non model plant species Metabolic engineering is usually defined as the re routing of one or more enzymatic reactions to generate new compounds increase the production of existing compounds or facilitate the degradation of compounds Plants are the foundation of numerous compounds which are synthesized via assimilated complex biosynthetic routes Plants have evolved an incredible arrangement of metabolic pathways leading to molecules compounds capable of responding promptly and effectively to stress situations imposed by biotic and abiotic factors some of which supply the ever growing needs of humankind for natural chemicals such as pharmaceuticals nutraceuticals agrochemicals food and chemical additives biofuels and biomass However in foreseeable future we will be forced to think about the accessibility of resources for the generations to come For these reasons the book proposes alternative options of food food supplement medicines and other essential items by using plant metabolic engineering approach This book is of interest to teachers researchers and academic experts Also the book serves as additional reading material for undergraduate and graduate students of biotechnology and molecular biology of plants

**Exogenous Priming and Engineering of Plant Metabolic and Regulatory Genes** Manish Kumar Patel, Lam-Son Phan Tran, Sonika Pandey, Avinash Mishra, 2025-01-30 Exogenous Priming and Engineering of Plant Metabolic and Regulatory Genes Stress Mitigation Strategies in Plants provides insights into metabolic adjustment their regulation and the regulatory networks involved in plants responding to stress situations It contains comprehensive information combining mechanistic priming and engineering approaches from the conventional to those recently developed In addition the book addresses seed priming tolerance mechanisms pre and post treatment as well as sensory response and genetic manipulation From basic concepts to modern technologies and prevailing policies readers will find this book useful in enhancing their understanding of the area as well as helping in identifying approaches for future research Provides detailed information on developing stress tolerant crop varieties using two distinct approaches Highlights advancements in OMICS approaches for different crops Assists readers in designing and evaluating plan for future research

*Nanotechnology for Abiotic Stress Tolerance and Management in Crop Plants* Ramesh Namdeo Pudake, Ravi Mani Tripathi, Sarvajeet Singh Gill, 2024-03-13 Nanotechnology for Abiotic Stress Tolerance and Management in Crop Plants reviews the most recent literature on the role of nanomaterials in achieving sustainability in crop production in stressful environments This book explores the adverse conditions caused by abiotic stress to crop plants and the methods by which these conditions can be potentially overcome through developments in nanoscience and nanotechnology Abiotic stresses such as drought salinity temperature stress excessive water heavy metal stress UV stress etc are major factors which may adversely affect the growth development and yield of crops While recent research for ways of overcoming the physiological and biochemical changes brought on by these stresses has focused on genetic engineering of plants additional research continues into alternative strategies to develop

stress tolerant crops including the use of nanoscience and nanotechnology Providing an in depth summary of research on nanomaterials and nano based devices for field monitoring of crops this book will serve as an ideal reference for academics professionals researchers and students working in the field of agriculture nanotechnology plant science material science and crop production Presents advancements in our understanding of molecular and physiological interactions between nanoparticles and crop plants Includes figures and illustrations to help readers visualize and easily understand the role of nanomaterials Serves as an ideal reference for those studying smart nanomaterials biosensors and nanodevices for real time plant stress measurement

**Physiology of the Peanut Plant** P Basuchaudhuri,2022-10-20 Peanut is an important crop in the semi arid regions of the world Both irrigation and well water can provide the water necessary for it It is a nutritious seed nut crop and has manifold uses As such research on this crop is imperative This book reviews physiological aspects keeping in mind the changing agroclimatic conditions Growth development and yield are described on the basis of cellular and morphological manifestations Being a C3 plant the photosynthesis and respiration in peanuts is critically viewed specially under varying environment conditions and genotypes The study of nitrogen assimilation and biological nitrogen fixation have been presented in light of the prevalent environmental and gene effects The role of plant growth regulators in peanuts is elaborated on stating up to date mode of actions Special emphasis has been given to mechanisms of abiotic stress effects The chapters 13 are arranged on the basis of physiology cellular structure biochemistry molecular and genomics concepts

**Bulbous Plants** Kishan Gopal Ramawat,Jean-Michel Merillon,2016-04-19 Bulbous plants are those with organs for nutrient storage and these include tubers corms and bulbs They can be ornamental or edible herbaceous or perennial Important examples of such plants are potato sweet potato yam arrowroot and dahlias This book focuses mainly on economically important food crops their propagation strategies plant g Embryogenesis Ken-Ichi Sato,2012-04-20 The book Embryogenesis is a compilation of cutting edge views of current trends in modern developmental biology focusing on gametogenesis fertilization early and or late embryogenesis in animals plants and some other small organisms Each of 27 chapters contributed from the authorships of world wide 20 countries provides an introduction as well as an in depth review to classical as well as contemporary problems that challenge to understand how living organisms are born grow and reproduce at the levels from molecule and cell to individual

**Agricultural Biotechnology: Latest Research and Trends** Dinesh Kumar Srivastava,Ajay Kumar Thakur,Pankaj Kumar,2022-01-08 This book caters to the need of researchers working in the ever evolving field of agricultural biotechnology It discusses and provides in depth information about latest advancements happening in this field The book discusses evolution of plant tissue culture techniques development of doubled haploids technology role of recombinant DNA technology in crop improvement It also provides an insight into the global status of genetically modified crops use of RNAi technology and mi RNAs in plant improvement Chapters are also dedicated for different branches of omics science including genomics bioinformatics proteomics metabolomics and phenomics along

with the use of molecular markers in tagging and mapping of various genes QTLs of agronomic importance This book also covers the role of enzymes and microbes in agriculture in productivity enhancement It is of interest to teachers researchers of biotechnology and agriculture scientists Also the book serves as additional reading material for undergraduate and postgraduate students of biotechnology agriculture horticulture forestry ecology soil science and environmental sciences National and international biotechnologists and agricultural scientists will also find this to be a useful read

**Physiology of Soybean Plant** P Basuchaudhuri, 2020-11-01 The book provides in depth knowledge on the physiology of soybean It is written lucidly systematically and in depth The book provides recent information and findings explained with illustrations to express the ideas and concepts vividly to university students and researchers and provides a better understanding of the improvement of the productivity of soybean to cope with the future demand It describes the physiology of growth development flowering pod development and seed yield as well as C O N and Oil metabolisms their hormonal regulations under normal and stress environmental conditions Molecular approaches are also described

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