Genetics of Higher Plants: Applications of cell culture (Developmental and Cell Biology Series)

Chaleff, R.S.

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Genetics Of Higher Plants Applications Of Cell Culture

A. Rashid

Genetics Of Higher Plants Applications Of Cell Culture:

Genetics of Higher Plants R.S. Chaleff, 1981-03-31 Genetics of Higher Plants R.S. Chaleff, 1981-03-31 Cell Physiology and Genetics of Higher Plants A. Rashid, 2018-01-18 This book is devoted to fundamental aspects concerning cell physiology that are basic to the theme of biotechnology of higher plants It highlights the regeneration potential of higher plant cells for micropropagation of plants The book is concerned with the genetic engineering of plants *Production in Higher Plants* S. Mohan Jain, S.K. Sopory, R.E. Veilleux, 2013-03-09 Since the beginning of agricultural production there has been a continuous effort to grow more and better quality food to feed ever increasing popula tions Both improved cultural practices and improved crop plants have allowed us to divert more human resources to non agricultural activities while still increasing agricultural production Malthusian population predictions continue to alarm agricultural researchers especially plant breeders to seek new technologies that will continue to allow us to produce more and better food by fewer people on less land Both improvement of existing cultivars and development of new high yielding cultivars are common goals for breeders of all crops In vitro haploid production is among the new technologies that show great promise toward the goal of increasing crop yields by making similar germplasm available for many crops that was used to implement one of the greatest plant breeding success stories of this century i e the development of hybrid maize by crosses of inbred lines One of the main applications of anther culture has been to produce diploid homozygous pure lines in a single generation thus saving many generations of backcrossing to reach homozygosity by traditional means or in crops where self pollination is not possible Because doubled haploids are equivalent to inbred lines their value has been appreciated by plant breeders for decades The search for natural haploids and methods to induce them has been ongoing since the beginning of the 20th The Genetic Basis of Plant Physiological Processes John King, 1991-10-03 Plant molecular biology is rapidly century becoming an important and successful component of the worldwide research challenge to apply basic biochemical physiological and genetic techniques for the improvement of agricultural crops This book shows how the study of fundamental plant physiological processes is being advanced through the science of genetics. The author has adopted a case study approach to illustrate how defined genetic materials in mutants and plant variants are being productively used to explore photosynthesis stress tolerance seed physiology and flowering and reproductive morphology This approach also helps avoid overwhelming readers who might be unfamiliar with the enormous detail now available in this burgeoning field The case studies cover all major fields of plant physiology and are grouped in a format familiar to students of the discipline Most take the form of a brief introduction followed by a discussion of the isolation and characterization of the mutants in question and then by examples of how these mutants have been used to provide physiological insights The aim is to make the information accessible to students with an elementary knowledge of plant physiology genetics and molecular biology as well as other scientists and students who wish to know more about the application of the powerful tools provided by genetics

Applications of Genetic Engineering to Crop Improvement G.B. Collins, Joseph F. Petolino, 2012-12-06 The contributions of plant genetics to the production of higher yielding crops of superior quality are well documented These successes have been realized through the application of plant breeding techniques to a diverse array of genetically controlled traits Such highly effective breeding procedures will continue to be the primary method employed for the development of new crop cultivars however new techniques in cell and molecular biology will provide additional approaches for genetic modification There has been considerable speculation recently concerning the potential impact of new techniques in cell and molecular biology on plant improvement These genetic engineering techniques should offer unique opportunities to alter the genetic makeup of crops if applied to existing breeding procedures Many questions must be answered in order to identify specific applications of these new technologies This search for applications will require input from plant scientists working on various aspects of crop improvement This volume is intended to assess the interrelationships between conventional plant breeding and genetic engineering Somaclonal Variation and Induced Mutations in Crop Improvement S.M. Jain, D.S. Brar, B.S. Ahloowalia, 2013-03-14 Genetic variability is an important parameter for plant breeders in any con ventional crop improvement programme Very often the desired variation is un available in the right combination or simply does not exist at all However plant breeders have successfully recombined the desired genes from cultivated crop gerrnplasm and related wild species by sexual hybridization and have been able to develop new cultivars with desirable agronomie traits such as high yield disease pest and drought resistance So far conventional breeding methods have managed to feed the world's ever growing population Continued population growth no further scope of expanding arable land soil degradation environ mental pollution and global warrning are causes of concern to plant biologists and planners Plant breeders are under continuous pressure to improve and develop new cultivars for sustainable food production However it takes several years to develop a new cultivar Therefore they have to look for new technologies which could be combined with conventional methods to create more genetic variability and reduce the time in developing new cultivars with early maturity and improved yield The first report on induced mutation of a gene by HJ Muller in 1927 was a major milestone in enhancing variation and also indicated the potential applications of mutagenesis in plant improvement Radiation sources such as X rays gamma rays and fast neutrons and chemical mutagens e g ethyl methane sulphonate have been widely used to induce mutations Plant Regeneration and Genetic Variability Indra Vasil, 2012-12-02 Plant Regeneration and Genetic **Genetic Manipulation** Werner Arber (Microbiologist), 1984-03 Twenty three papers by the Committee on Variability Genetic Experimentation COGENE review recent advances in experimental studies on microorganisms plants and animals Micropropagation of Woody Plants M.R. Ahuja, 2013-06-29 This volume covers recent advances in the vegetative propagation of woody plants by tissue culture A wide range of topics relevant to micropropagation of woody plants are

discussed by renowned international scientists These include cellular contro of morphogenesis light regimes in tissue culture

maturation and rejuvenation synthetic seed genetics of micropropagated plants haploid embryogenesis protoplast culture and acclimatization of ex vitro woody plants In addition to micropropagation of selected woody plants both gymnosperms and angiosperms this volume also includes in vitro genetic selection strategic planning for application of biotechnology for genetics and breeding and clonal options for woody plant improvement A balanced view of both perspectives and limitations of woody plant micropropagation is presented **Somaclonal Variation in Crop Improvement I** Professor Dr. Y. P. S. Cell Culture and Somatic Cell Genetics of Plants I. K. Vasil, F. Constabel, 1984 V 1 Laboratory Bajaj, 2013-03-14 procedures and their applications v 2 Cell growth nutrition cytodifferentiation and cryopreservation v 3 Plant regeneration and genetic variability v 4 Cell culture in phytochemistry v 5 Phytoche micals in plant cell cultures v 6 Molecular biology of plant nuclear genes v 7A The molecular biology of plastids v 7B The photosynthetic apparatus molecular biology and operation v 8 Scale up and automation in plant propagation Plant Biotechnology M.W. Fowler, G.S. Warren, Murray Moo-Young, 2013-10-22 Today it is generally accepted that one of the key areas of biotechnology for the next century will be in plant based biotechnology Biotechnology has created new opportunities for plant scientists with important applications to agriculture and forestry This reference text is divided into five sections for ease of presentation The first section focuses on the structure composition and functionality of plant cells and genes with particular emphasis on the cellular and molecular biology of plants and cultured cells Section two is concerned with the direct exploitation of cell cultures for the production of useful substances The third section deals with regeneration and propagation systems The fourth section considers the increasingly central area of genetic manipulation of plant cell systems. The last section is on specific applications in plant biotechnology This reference work is a survey of these various facets of plant biotechnology The individual chapters and the follow up literature cited allow an easy access to the various subject areas and will hopefully stimulate interest in these rapidly moving and exciting fields of research Genetic Aspects of Plant Mineral Nutrition W.H. Gabelman, B.C. Loughman, 2012-12-06 This volume presents the proceedings of the Second International Sym posium on Genetic Aspects ofPlant Minerai Nutrition held in Madison Wisconsin in 1985 The mechanisms by which plants acquire transport and utilize essential mineral nutrients are highly complex. The means by which plants either exclude or tolerate ions of metals toxic to plants are equally complex The first symposium attempted to convene research scientists con cerned with minerai nutrition for the purpose of exploring the kinds of mineral nutrition phenomena identified as being under genetic contro The first symposium also placed much emphasis on research to which genetic intervention might be applied At the second symposium more papers were presented on genetic and breeding research a long term objective of the first symposium The second symposium also included biotic interactions under genetic con trol that either enhanced or impeded ion uptake e g mycorrhizae and nitrogen fixing bacteria This continuing dialogue is essential for a research area the complexity of which is due to its interdisciplinary nature Rice Genetics International Rice Research Institute, 1985 Regional Perspective Rice

production in Africa an overview Rice in eastern and southern Africa the role of international testing Varietal improvement research in rice for Africa Potential rice varieties for East Africa High yielding varieties technology project for rice in tropical Africa Insect pests and diseases of rice in Africa National Rice Research And Production Rice production in Kenya Key research areas on irrigated rice in Kenya Rice in Tanzania The status of rice production consumpuon and research in Zimbabwe Rice research in Zimbabwe The Zina year rice project in Madagascar Rice in Malawi Country report for Zambia with emphasis on activities and constraints to rice production A review of rice research in Zambia past present and future prased Recommendations Monitoring tour in Zambia and Tanzania Genetic Engineering of Plants Tsune Kosuge, Carole P. Meredith, Alexander Hollaender, Claire M. Wilson, 2012-12-06 William C Taylor Department of Genetics University of California Berkeley California 94720 It is evident by now that there is a great deal of interest in exploiting the new technologies to genetically engineer new forms of plants A purpose of this meeting is to assess the possibilities The papers that follow are concerned with the analysis of single genes or small gene families. We will read about genes found within the nucleus plastids and bacteria which are responsible for agri culturally important traits Given that these genes can be isolated by recombinant DNA techniques there are two possible strategies for plant engineering One involves isolating a gene from a cultivated plant changing it in a specific way and then inserting it back into the same plant where it produces an altered gene product An example might be changing the amino acid composition of a seed pro tein so as to make the seed a more efficient food source A second strategy is to isolate a gene from one species and transfer it to another species where it produces a desirable feature An example might be the transfer of a gene which encodes a more efficient pho tosynthetic enzyme from a wild relative into a cultivated species There are three technical hurdles which must be overcome for either strategy to work The gene of interest must be physically isolated Modern Applications of Plant Biotechnology in Pharmaceutical Sciences Saurabh Bhatia, Kiran Sharma, Randhir Dahiya, Tanmoy Bera, 2015-07-22 Modern Applications of Plant Biotechnology in Pharmaceutical Sciences explores advanced techniques in plant biotechnology their applications to pharmaceutical sciences and how these methods can lead to more effective safe and affordable drugs The book covers modern approaches in a practical step by step manner and includes illustrations examples and case studies to enhance understanding Key topics include plant made pharmaceuticals classical and non classical techniques for secondary metabolite production in plant cell culture and their relevance to pharmaceutical science edible vaccines novel delivery systems for plant based products international industry regulatory guidelines and more Readers will find the book to be a comprehensive and valuable resource for the study of modern plant biotechnology approaches and their pharmaceutical applications Builds upon the basic concepts of cell and plant tissue culture and recombinant DNA technology to better illustrate the modern and potential applications of plant biotechnology to the pharmaceutical sciences Provides detailed yet practical coverage of complex techniques such as micropropogation gene transfer and biosynthesis Examines critical issues of international importance and

offers real life examples and potential solutions Plant Biotechnology and Genetic Advances Kailash Verma, 2025-01-03 Plant Biotechnology and Genetic Advances aims to inform and inspire the next generation of biotechnologists by exploring contemporary techniques and technologies We delve into tissue culture and genetic engineering to produce modified plants with enhanced characteristics. These tools promise to revolutionize the future of plant biotechnology and crop genetics contributing to human health and environmental sustainability We also examine reverse breeding technologies which help new cultivators accelerate breeding to address climate change challenges Recent advances in biotechnology at the microscopic level involve manipulating cells editing DNA and synthesizing genomes Our book covers plant biology basics new biotechnology tools and advances plant cell structure and function system biology genomes plant disease resistance plant tissue culture and chloroplast biology Each chapter includes summaries and discussion questions to reinforce learning This book is an invaluable resource for students and individuals seeking a deeper understanding of plant biotechnology and genetics **Applied Mutation Breeding for Vegetatively Propagated Crops** C. Broertjes, A.M. van Harten, 2013-10-22 When the first edition of this book appeared in 1978 it was warmly received Most readers and reviewers especially valued the extensive coverage of the literature in the chapters dealing with the different crops a valuable and timely addition to plant breeders and of outstanding value to breeders of ornamental plants The book s special strength resides in the extensive review of literature International Journal for Breeding Research This is also reflected by the many times that the work has been referred to in other publications This new edition provides plant breeders as well as scientists with an up to date overview of methods and results of the application of mutation breeding in order to genetically improve vegetatively propagated crops General principles and background information about mutation breeding in general methods of treatment material to be treated and results are discussed in the introductory chapters followed by a description of the specific situation in each of the vegetatively propagated crops ever used in a mutation breeding project This volume brings together all the important and relevant literature in the field It provides a complete account of mutation breeding of vegetatively produced crops presenting conclusions about the value of the method its possibilities limitations and shortcomings and the possible difficulties of further application in various crops The initial chapters deal with the interactions between mutagenic treatment and plant material such as aspects of mutagenic treatment post irradiation behaviour of shoot apices and adventitious bud techniques All available literature is then discussed crop by crop and critically evaluated Almost 1700 references are covered and whenever possible suggestions for more efficient application of mutation breeding methods are given Plant Tissue Culture and Its Agricultural Applications Lyndsey A. Withers, P. G. Alderson, 2013-10-22 Plant Tissue Culture and Its Agricultural Applications presents the proceedings of the 41st University of Nottingham Easter School in Agricultural Science held in England The sessions covered in this volume reflect the revolution of tissue culture and its role in the propagation of elite plant material and the development of improved genotypes This book

is organized into four main sections The first section chronicles the revolution of the plant tissue culture This includes papers on clonal propagation morphogenesis germplasm storage plant health and genetic improvement The core of this volume is covered by the introductory and the final chapters which interrelate the different subjects areas covered by the proceedings and provide a realistic assessment of future research required for the plant tissue culture revolution to come to fruition This book will be useful to readers interested in understanding the history evolution and future of plant tissue culture and its applications in the agricultural sector

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