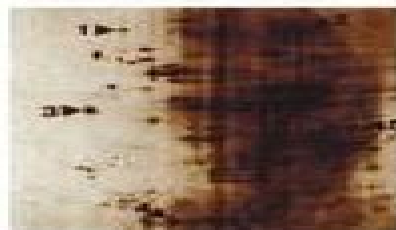


Somatic Cell Genetics and Molecular Genetics of Trees

M. Raj Ahuja
Wout Boerjan
David B. Neale
editors



Somatic Cell Genetics And Molecular Genetics Of Trees

S.M. Jain, S.C. Minocha



Somatic Cell Genetics And Molecular Genetics Of Trees:

Somatic Cell Genetics and Molecular Genetics of Trees M.R. Ahuja, Wout Boerjan, David B. Neale, 2012-12-06 This proceedings is based on a joint meeting of the two IUFRO International Union of Forestry Research Organizations Working Parties Somatic Cell Genetics S2 04 07 and Molecular Genetics S2 04 06 held in Gent Belgium 26 30 September 1995 Although a joint meeting of the two Working Parties had been discussed in the past this was the first such meeting that became a successful reality In fact this meeting provided an excellent forum for discussions and interactions in forest biotechnology that encouraged the participants to vote for a next joint meeting In the past decade rapid progress has been made in the somatic cell genetics and molecular genetics of forest trees In order to cover recent developments in the broad area of biotechnology the scientific program of the meeting was divided into several sessions These included somatic embryogenesis regeneration transformation gene expression molecular markers genome mapping and biotic and abiotic stresses The regeneration of plants produced by organogenesis or somatic embryogenesis is necessary not only for mass cloning of forest trees but also for its application in genetic transformation and molecular biology Although micropropagation has been achieved from juvenile tissues in a number of forest tree species in vitro regeneration from mature trees remains a challenging problem in most hardwoods and conifers The mechanisms involved in the transition from juvenile to mature phase in woody plants are poorly understood This transition can now be investigated at the molecular level

Somatic Cell Genetics of Woody Plants M.R. Ahuja, 2012-12-06 Most forest tree species were considered recalcitrant a decade ago but now with the improved in vitro techniques some progress has been made towards culture of tree species Micro propagation has been achieved from the juvenile tissues of a number of forest tree species On the other hand tissues from most mature trees are still very difficult to grow and differentiate in vitro Nevertheless there has been slow but steady progress in the application of tissue culture technology for culture of tissues organs cells and protoplasts of tree species As compared to most agricultural crops and herbaceous plant species trees are a different lot They have long generation cycles They are highly heterozygous and have a large reservoir of genetic variability Because of this genetic variability their response in vitro is also variable On a single medium the response of tissues from different trees genotypes of a single species may be quite different some responding by induction of growth and differentiation while others showing minimal or no growth at all That makes the somatic cell genetics of woody plants somewhat difficult but at the same time interesting

Tree Biotechnology Kishan Gopal Ramawat, Jean-Michel Méryllon, M. R. Ahuja, 2014-04-01 Forest trees cover 30% of the earth's land surface providing renewable fuel wood timber shelter fruits leaves bark roots and are source of medicinal products in addition to benefits such as carbon sequestration watershed protection and habitat for 1/3 of terrestrial species However the genetic analysis and breeding of trees has lagged behind that of crop plants Therefore systematic conservation sustainable improvement and pragmatic utilization of trees are global priorities This book provides comprehensive and up to date

information about tree characterization biological understanding and improvement through biotechnological and molecular tools

Molecular Biology of Woody Plants S.M. Jain, S.C. Minocha, 2013-04-17 Woody plants constitute an artificial and heterogeneous group of plants that share some common phenotypic characteristics but otherwise have no strong evolutionary relationships nor do they share a common habitat They are a primary source of fiber and timber and also include many edible fruit species Their unique phenotypic behavior includes a perennial habit associated with extensive secondary growth Additional characteristics of woody plants include developmental juvenility and maturity with respect to growth habit flowering time and morphogenetic response in tissue cultures environmental control of bud dormancy and flowering cycles variable tolerance to abiotic stresses wounding and pathogens and long distance transport of water and nutrients Woody plants particularly tree species have been the focus of numerous physiological studies to understand their specialized functions however only recently have they become the target of molecular studies Recent advances in our understanding of signal transduction pathways for environmental responses in herbaceous plants including the identification and cloning of genes for proteins involved in signal transduction should provide useful leads to undertake parallel studies with woody plants Molecular mapping techniques coupled with the availability of cloned genes from herbaceous plants should provide shortcuts to cloning relevant genes from woody plants The unique phenotypes of these plants can then be targeted for improvement through genetic engineering In this book we present a broad coverage of various aspects of plant molecular biology that are relevant to the improvement of woody plant

Dendrome, 1994 News and information about genome research in forest trees for forest biologists and forest managers

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 conventional crop improvement programme Very often the desired variation is unavailable in the right combination or simply does not exist at all However plant breeders have successfully recombined the desired genes from cultivated crop germplasm and related wild species by sexual hybridization and have been able to develop new cultivars with desirable agronomic 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 environmental pollution and global warming 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 Micropropagation, Genetic Engineering, and Molecular Biology of Populus, 1997 Thirty four Populus biotechnology chapters written by 85 authors are comprised in 5 sections 1 in vitro culture micropropagation somatic embryogenesis protoplasts somaclonal variation and germplasm preservation 2 transformation and foreign gene expression 3 molecular biology molecular genetic characterization 4 biotic and abiotic resistance disease insect and pollution and 5 biotechnological applications wood properties flowering phytoremediation breeding commercialization economics and bioethics **Transgenic Trees** Y.P.S. Bajaj, 2012-12-06 Annotation This volume on Transgenic Trees comprising 22 chapters deals with the genetic transformation of fruit and forest trees It is of special interest to advanced students teachers and research workers in the field of forestry horticulture molecular biology plant tissue culture botany and plant biotechnology in general BOOK JACKET Title Summary field provided by Blackwell North America Inc All Rights Reserved *General Technical Report RM.*, 1997 *Forest Products Biotechnology* Alan Bruce, John Palfreyman, 1997-11-27 Industries are developing radical new biotechnology processes to expand and develop their range of products that originate from the world's forests As a result of the growing understanding of the process involved biotechnology is also helping reduce any adverse impact on the environment This book presents a review of specialist research direct *Seed Technology and Its Biological Basis* Michael Black, J. Derek Bewley, 2000 Edited by a renowned seed biologist with a team assembled from the most respected laboratories worldwide Seed Technology and Its Biological Basis illustrates the commercial value of seeds as a major resource The editors provide a sweeping overview of the current state of the art in seed technology and its biological basis The book is invaluable to researchers and professionals in both the industrial and academic sectors **Trends in European Forest Tree Physiology Research** Satu Huttunen, Hannele Heikkilä, Jürg Bucher, Björn Sundberg, Paul Jarvis, R. Matyssek, 2013-04-17 The increasing concern for the serious problems of forest decline that occurred in the Northern Hemisphere in the late 1970s and early 1980s led to an emphasis on the necessity of promoting and setting up investigations into the basic physiological mechanisms of forest trees Since then the concern about rapid changes has decreased along with the increase of monitored data on European forests health status But tree physiology has faced new questions about changing climate and increasing atmospheric carbon dioxide concentrations Advances in plant molecular biology and forest genetics have opened up new avenues in the research on forest tree physiology At the same time it has become evident that molecular and genetic tools give only a basis for further research on tree structure and function which needs basic tree physiology again On the other hand the problems of forest decline in Europe are not over They are no longer discussed daily in the media but stress is an everyday phenomenon experienced by European forest trees For instance in southern Europe and mountainous regions drought stress and many other abiotic or biotic factors are stressors and cause problems to forests with many important social and protective functions Stress physiology is a branch of everyday physiology in traditional forestry How to grow a forest with maximal carbon binding

functions and optimal wood quality and rich in biodiversity *From Plant Genomics to Plant Biotechnology* Palmiro Poltronieri, Natalija Burbulis, Corrado Fogher, 2013-08-31 With the appearance of methods for the sequencing of genomes and less expensive next generation sequencing methods we face rapid advancements of the omics technologies and plant biology studies reverse and forward genetics functional genomics transcriptomics proteomics metabolomics the movement at distance of effectors and structural biology From plant genomics to plant biotechnology reviews the recent advancements in the post genomic era discussing how different varieties respond to abiotic and biotic stresses understanding the epigenetic control and epigenetic memory the roles of non coding RNAs applicative uses of RNA silencing and RNA interference in plant physiology and in experimental transgenics and plants modified to specific aims In the forthcoming years these advancements will support the production of plant varieties better suited to resist biotic and abiotic stresses for food and non food applications This book covers these issues showing how such technologies are influencing the plant field in sectors such as the selection of plant varieties and plant breeding selection of optimum agronomic traits stress resistant varieties improvement of plant fitness improving crop yield and non food applications in the knowledge based bio economy Discusses a broad range of applications the examples originate from a variety of sectors including in field studies breeding RNA regulation pharmaceuticals and biotech and a variety of scientific areas such as bioinformatics omics sciences epigenetics and the agro industry Provides a unique perspective on work normally performed behind closed doors As such it presents an opportunity for those within the field to learn from each other and for those on the outside to see how different groups have approached key problems Highlights the criteria used to compare and assess different approaches to solving problems Shows the thinking process practical limitations and any other considerations aiding in the understanding of a deeper approach

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 control 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 **Environmental Forest Science** Kyoji Sassa, 2012-12-06 This proceedings

volume has been edited from sixty nine full text papers of the 132 papers presented to the IUFRO International Union of Forestry Research Organizations Conference on Environmental Forest Science which was jointly organized by IUFRO Division 8 Forest Environment and Kyoto University in Kyoto Japan on 19-23 October 1998 The International Union of Forestry Research Organizations IUFRO is one of the oldest scientific societies It was founded in 1892 to foster cooperation

of research units on forestry IUFRO consists of 650 research organizations from 100 countries IUFRO th Division 8 is the latest division founded at the 20 World Congress in 1995 by subdividing the previous Division 1 Forest Environment and Silviculture The objective of this first general Conference of Division 8 is to consider research needs in the 21 st century for forest environment and the integration of related fields of sciences to a new concept of environmental forest science **The Pine Genomes** Amanda R. De La Torre,2022-02-27 This book is the first comprehensive compilation of the most up to date research in the genomics transcriptomics and breeding of pine species across Europe North America and Australia With chapters on the state of the reference genomes transposon function genome wide diversity functional genomics genomics of disease resistance genomics of abiotic stress and genomic selection this book is a must read for scientists breeders and students of plant genomics The book contains 12 chapters over 300 pages authored by a group of world renowned scientists in the field of pine genomics Pines Pinus are the world s most economically important forest tree species The recent genome sequencing of several important pine species has paved the way for understanding their complex biology and helps future management and breeding efforts *Conifer Cold Hardiness* F.J. Bigras,Stephen J. Colombo,2013-03-14 *Conifer Cold Hardiness* provides an up to date synthesis by leading scientists in the study of the major physiological and environmental factors regulating cold hardiness of conifer tree species This state of the art reference comprehensively explains current understanding of conifer cold hardiness ranging from the gene to the globe and from the highly applied to the very basic Topics addressed encompass cold hardiness from the perspectives of ecology ecophysiology acclimation and deacclimation seedling production and reforestation the impacts of biotic and abiotic factors and methods for studying and analyzing cold hardiness The content is relevant to geneticists ecologists stress physiologists environmental and global change scientists pathologists advanced nursery and silvicultural practitioners and graduate students involved in plant biology plant physiology horticulture and forestry with an interest in cold hardiness *Current Frontiers in Cryopreservation* Igor Katkov,2012-03-14 Almost a decade has passed since the last textbook on the science of cryobiology *Life in the Frozen State* was published Recently there have been some serious tectonic shifts in cryobiology which were perhaps not seen on the surface but will have a profound effect on both the future of cryobiology and the development of new cryopreservation methods We feel that it is time to revise the previous paradigms and dogmas discuss the conceptually new cryobiological ideas and introduce the recently emerged practical protocols for cryopreservation The present books *Current Frontiers in Cryobiology* and *Current Frontiers in Cryopreservation* will serve the purpose This is a global effort by scientists from 27 countries from all continents and we hope it will be interesting to a wide audience **The Bioengineered Forest** Steven H. Strauss,2010-09-30 Bioengineering offers many opportunities for forestry Bioengineered trees can produce more valuable wood help reclaim contaminated land improve the health of urban trees and facilitate pest management But the ecological risks are complex and public views about the ethical acceptability of genetic engineering vary widely Unique in its breadth and diversity The

Bioengineered Forest begins with a survey of the range of forestry practices for which the use of biotechnologies might be appropriate. Scholars representing diverse academic perspectives and viewpoints examine in depth the economic and environmental rationale for forest biotechnologies and the current state of technology with respect to gene performance and safety. They consider the contemporary political and economic environment in which bioengineering is being introduced and where the genomic revolution might take forestry and genetic engineering in the future. The Bioengineered Forest presents compelling arguments in favor of genetic engineering. Just as powerfully it examines the significant technical and legal hurdles involved in genetic engineering, the undesirable environmental and social consequences that might result from its misapplication, and the risks for businesses that are looking too exclusively for near term benefits.

Cereal Crops Tariq Shah, Lixiao Nie, Marcelo Teixeira Filho, Rabia Amir, 2023-06-21. *Cereal Crops: Genetic Resources and Breeding Techniques* provides the reader with practical tools for understanding relationships and challenges of successful farming improvements to genetic modifications and environmentally sound methods of production of bulk and quality cereals including wheat, maize, rice, barley, and millets. It explores trait mapping, cropping systems, genome engineering, and identification of specific germplasms needed for the more effective development of biotic and abiotic stress-resistant cereals within the framework of ensuring future food supplies around the world.

Features: Focuses on cropping systems, genetics, and genome engineering for higher crop production at a global level. Provides information on specific prebiotic formulas to ward off adverse effects of antibiotics. Covers mechanistic as well as practical approaches for enhancing crop production in a sustainable way. Includes further in-depth analysis of various topics following each chapter. This is a vital resource for researchers, crop biologists, and students working with crop production and climate changes that have a significant impact on crop production, spanning basic to advanced level discussions of plant breeding, molecular genetics, and agronomy. Covering mechanistic and practical approaches for enhancing crop production in a sustainable way, this text is beneficial to intensive farmers and stakeholders in the field of crop production.

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