

Márta Molnár-Láng · Carla Ceoloni
Jaroslav Dolezel *Editors*

Alien Introgression in Wheat

Cytogenetics, Molecular Biology, and
Genomics

 Springer

And Alien Introgression Wheat Cytogenetics Molecular

Moshe Feldman, Avraham A. Levy



And Alien Introgression Wheat Cytogenetics Molecular:

Alien Introgression in Wheat Márta Molnár-Láng, Carla Ceoloni, Jaroslav Doležel, 2015-11-20 This book provides an overview of the latest advancements in the field of alien introgression in wheat The discovery and wide application of molecular genetic techniques including molecular markers in situ hybridization and genomics has led to a surge in interspecific and intergeneric hybridization in recent decades The work begins with the taxonomy of cereals especially of those species which are potential gene sources for wheat improvement The text then goes on to cover the origin of wheat breeding in connection with alien introgressions and the problems of producing intergeneric hybrids and backcross derivatives These problems can include crossability sterility and unequal chromosome transmission The work then covers alien introgressions according to the related species used as well as new results in the field of genomics of wild wheat relatives and introgressions

Alien Introgression in Wheat Márta Molnár-Láng, Carla Ceoloni, Jaroslav Doležel, 2015 This book provides an overview of the latest advancements in the field of alien introgression in wheat The discovery and wide application of molecular genetic techniques including molecular markers in situ hybridization and genomics has led to a surge in interspecific and intergeneric hybridization in recent decades The work begins with the taxonomy of cereals especially of those species which are potential gene sources for wheat improvement The text then goes on to cover the origin of wheat breeding in connection with alien introgressions and the problems of producing intergeneric hybrids and backcross derivatives These problems can include crossability sterility and unequal chromosome transmission The work then covers alien introgressions according to the related species used as well as new results in the field of genomics of wild wheat relatives and introgressions

Molecular Advances in Wheat and Barley Manuel Martinez, 2019-08-20 Allohexaploid bread wheat and diploid barley are two of the most cultivated crops in the world This book reports novel research and reviews concerning the use of modern technologies to understand the molecular bases for wheat and barley improvement The contributions published in this book illustrate research advances in wheat and barley knowledge using modern molecular techniques These molecular approaches cover genomic transcriptomic proteomic and phenomic levels together with new tools for gene identification and the development of novel molecular markers Overall the contributions for this book lead to a further understanding of regulatory systems in order to improve wheat and barley performance

Chromosome Manipulation for Plant Breeding Purposes Pilar Prieto, 2021-01-29 The ability to exploit the potential of wild relatives carrying beneficial traits is a major goal in breeding programs However it relies on the possibility of the chromosomes from the crop and wild species in interspecific crosses to recognize associate and undergo crossover formation during meiosis the cellular process responsible for producing gametes with half the genetic content of their parent cells Unfortunately in most cases a barrier exists preventing successful hybridization between the wild and crop chromosomes Understanding the mechanisms controlling chromosome associations during meiosis are of great interest in plant breeding and will allow

chromosome manipulation to introduce genetic variability from related species into a crop. In addition to interspecific hybrids, other materials such as natural and synthetic polyploids and introgression lines derived from allopolyploids among others are powerful tools in the framework of plant breeding. For example, an extra pair of alien chromosomes in the full genome complement of a crop species has been frequently used as a first step to access genetic variation from the secondary gene pool in breeding programs. In addition, such introgression lines are also pivotal in the study of interspecific genetic interactions, in the chromosomal location of genetic markers, and in the study of chromosome structure and behavior in somatic and meiotic cells. Contained in this Special Issue are accounts of original research including new tools to identify chromosome introgressions and the development and characterization of introgression lines and interspecific hybrids carrying desirable agronomic traits for plant breeding purposes. Also included are reviews about the chromosome engineering of tropical cash crops and the effect of chromosome structure on chromosome associations and recombination during meiosis to allow chromosome manipulation in the framework of plant breeding.

Aegilops: Promising Genesources to Improve Agronomical and Quality Traits of Wheat Peter Shewry, Marianna Rakszegi, István Molnár, Eva Darko, Vijay Kumar Tiwari, 2020-09-02. This eBook is a collection of articles from a Frontiers Research Topic.

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Plant Genetics and Biotechnology in Biodiversity Rosa Rao, Giandomenico Corrado, 2018-08-09. This book is a printed edition of the Special Issue *Plant Genetics and Biotechnology in Biodiversity* that was published in *Diversity*.

Interspecific Hybridization in Plant Biology Andrew H. Paterson, Dayun Tao, Ruslan Kalendar, 2022-10-13.

Wheat Evolution and Domestication Moshe Feldman, Avraham A. Levy, 2023-10-03. This open access book covers a century of research on wheat genetics and evolution, starting with the discovery in 1918 of the accurate number of chromosomes in wheat. We re-evaluate classical studies that are pillars of the current knowledge, considering recent genomic data in the wheat group comprising 31 species from the genera *Amblyopyrum*, *Aegilops*, *Triticum*, and other more distant relatives. For these species, we describe morphology, ecogeographical distribution, phylogeny, as well as cytogenetic and genomic features. For crops, we also address evolution under human selection, namely pre-domestication cultivation and domestication. We re-examine the genetic and archeological evidence of where, when, and how domestication occurred. We discuss unique aspects of genome evolution and maintenance under polyploidization in natural and synthetic allopolyploids of the wheat group. Finally, we propose some thoughts on the future prospects of wheat improvement. As such, it can be of great interest to wheat researchers and breeders, as well as to plant scientists and students.

interested in plant genetics evolution domestication and polyploidy
Prohens,Pietro Gramazio,Mariola Plazas,Laura Toppino,2021-11-24

Introgression Breeding in Cultivated Plants Jaime
QTL Mapping in Crop Improvement Shabir

Hussain Wani,Dechun Wang,Gyanendra Pratap Singh,2022-11-19 QTL Mapping in Crop Improvement Present Progress and Future Perspectives presents advancements in QTL breeding for biotic and abiotic stresses and nutritional improvement in a range of crop plants The book presents a roadmap for future breeding for resilience to various stresses and improvement in nutritional quality Crops such as rice wheat maize soybeans common bean and pigeon pea are the major staple crops consumed globally hence fulfilling the nutritional requirements of global populations particularly in the under developed world is extremely important Sections cover the challenges facing maximized production of these crops including diseases insect damage drought heat salinity and mineral toxicity Covering globally important crops including maize wheat rice barley soybean common bean and pigeon pea this book will be an important reference for those working in agriculture and crop improvement Uses the latest molecular markers to identify QTLs genes responsible for biotic and abiotic stress tolerance in plants Includes multiple core crops for efficient comparison and translational learning Provides a ready reference for improving quality traits through the use of the latest technologies

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