

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

# Alien Introgression in Wheat

Cytogenetics, Molecular Biology, and  
Genomics

# And Alien Introgression Wheat Cytogenetics Molecular

**International Atomic Energy Agency**

## 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    **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 [\*\*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

### **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 [\*\*Introgression Breeding in Cultivated Plants\*\*](#) Jaime Prohens, Pietro Gramazio, Mariola Plazas, Laura Toppino, 2021-11-24

### **Interspecific**

[\*\*Hybridization in Plant Biology\*\*](#) Andrew H. Paterson, Dayun Tao, Ruslan Kalendar, 2022-10-13 [\*\*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 [\*\*Genomics-enabled Triticeae Improvement\*\*](#)

Xue-Feng Ma, Peter Stephen Baenziger, Shuyu Liu, Xianchun Xia, Hakan Ozkan, 2022-04-07

### **Development and Molecular**

## **Cytogenetic Characterization of Alien Introgressions Conferring Resistance to Hessian Fly and Fusarium Head**

**Blight in Wheat** Ronell Joey Carcallas Cainong, 2014 Hexaploid wheat *Triticum aestivum* L 2n 6x 42 AABBDD is a recent polyploid and originates from a limited number of founder genotypes Domestication bottlenecks further reduced genetic diversity The wheat gene pool which consists of landraces and wild relatives such as rye *Secale cereale* L *Leymus racemosus* Tien and *Elymus tsukushiensis* Honda is a rich source of genetic diversity Agronomically important traits can be transferred from these gene pools to wheat through chromosome engineering This dissertation describes chromosome engineering and pre breeding efforts for resistance to Hessian fly and Fusarium head blight FHB in wheat The germplasm with a whole arm rye translocation T2BS 2R 2L contains the highly effective Hessian fly resistance gene H21 and an unnamed powdery mildew resistance gene Directed chromosome engineering was used to shorten the whole arm rye segment The recovered wheat rye recombinant chromosome T2BS 2BL 2R 2L had a shorter rye segment but still contained the H21 gene and was transferred through backcrosses to adapted winter and spring wheat cultivars This study released the germplasm KS09WGGRG51 which is used in wheat breeding programs in the U S A Two novel sources of FHB resistance were identified in *L racemosus* and *E tsukushiensis* *Fhb3* present in the wheat *L racemosus* T7AL 7Lr 1S Robertsonian translocation was transferred into the adapted Kansas winter wheat cultivar Fuller The wheat *E tsukushiensis* disomic addition translocation line confers FHB resistance *Ph1b* induced homoeologous recombination was used to produce wheat *E tsukushiensis* recombinants The distal and interstitial recombinants were identified using molecular markers and genomic *in situ* hybridization GISH A combination of molecular cytogenetic analyses determined that the distal recombinant involved wheat chromosome 1A and a small distal segment originating from the *E tsukushiensis* chromosome arm 1E superscript ts 1S resulting in the recombinant chromosome T1AL 1AS 1E superscript ts 1S The interstitial recombinant involves an unidentified wheat chromosome and appears to be highly rearranged Both recombinants confer high levels of type II FHB resistance resistance to spread within the head based on point inoculations in the greenhouse To date these two recombinants are the smallest alien introgression with FHB resistance in common wheat This germplasm material has been released as KS14WGRC61 The distal recombinant can be used directly for breeding of FHB resistant cultivars worldwide

[Molecular Cytogenetic Analyses of the Potato Genome](#) Ahmet Latif Tek, 2003 [Israel Journal of Plant Sciences](#), 2007 [Induced Mutations and Molecular Techniques for Crop Improvement](#) International Atomic Energy Agency, 1995 Proceedings of a symposium jointly organized by the IAEA and FAO Vienna 19 23 June 1995 The aim of the symposium was to review current aspects of mutation and molecular biology techniques for use in crop improvement and to bridge the gap between practical plant breeding and molecular techniques Problems of crop improvement worldwide and their possible solution were discussed It was concluded that use of all available approaches including mutation and molecular biology techniques will be crucial to future plant breeding programmes in order to meet the world s food production challenges [Wheat Information Service](#), 2005 [Australian](#)

**Journal of Agricultural Research** ,2008    **Cereal Research Communications** ,2005    **Genetics Abstracts** ,2000  
*Proceedings of the Seventh International Wheat Genetics Symposium* T. E. Miller,R. M. D. Koebner,1988    **Evolution and Adaptation of Cereal Crops** V. L. Chopra,Shyam Prakash,2002 Aimed at the professional and postgraduate reader this text describes the evolution and adaptation of grain A pragmatic approach has been taken wherein adaptation has been traced for crop traits preferred by consumer demand and agro ecological requirements in the production areas    *Meeting the Challenge of Yellow Rust in Cereal Crops* Roy Johnson,International Center for Agricultural Research in the Dry Areas,2002

## Unveiling the Power of Verbal Beauty: An Psychological Sojourn through **And Alien Introgression Wheat Cytogenetics Molecular**

In a world inundated with monitors and the cacophony of fast interaction, the profound energy and psychological resonance of verbal art usually disappear into obscurity, eclipsed by the regular assault of sound and distractions. Yet, located within the lyrical pages of **And Alien Introgression Wheat Cytogenetics Molecular**, a fascinating work of literary beauty that impels with organic emotions, lies an remarkable trip waiting to be embarked upon. Published with a virtuoso wordsmith, that enchanting opus manuals viewers on an emotional odyssey, lightly revealing the latent possible and profound impact embedded within the intricate web of language. Within the heart-wrenching expanse of this evocative examination, we can embark upon an introspective exploration of the book is central styles, dissect their interesting writing type, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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### **Table of Contents And Alien Introgression Wheat Cytogenetics Molecular**

1. Understanding the eBook And Alien Introgression Wheat Cytogenetics Molecular
  - The Rise of Digital Reading And Alien Introgression Wheat Cytogenetics Molecular
  - Advantages of eBooks Over Traditional Books
2. Identifying And Alien Introgression Wheat Cytogenetics Molecular
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an And Alien Introgression Wheat Cytogenetics Molecular
  - User-Friendly Interface
4. Exploring eBook Recommendations from And Alien Introgression Wheat Cytogenetics Molecular

- Personalized Recommendations
- And Alien Introgression Wheat Cytogenetics Molecular User Reviews and Ratings
- And Alien Introgression Wheat Cytogenetics Molecular and Bestseller Lists

5. Accessing And Alien Introgression Wheat Cytogenetics Molecular Free and Paid eBooks

- And Alien Introgression Wheat Cytogenetics Molecular Public Domain eBooks
- And Alien Introgression Wheat Cytogenetics Molecular eBook Subscription Services
- And Alien Introgression Wheat Cytogenetics Molecular Budget-Friendly Options

6. Navigating And Alien Introgression Wheat Cytogenetics Molecular eBook Formats

- ePub, PDF, MOBI, and More
- And Alien Introgression Wheat Cytogenetics Molecular Compatibility with Devices
- And Alien Introgression Wheat Cytogenetics Molecular Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of And Alien Introgression Wheat Cytogenetics Molecular
- Highlighting and Note-Taking And Alien Introgression Wheat Cytogenetics Molecular
- Interactive Elements And Alien Introgression Wheat Cytogenetics Molecular

8. Staying Engaged with And Alien Introgression Wheat Cytogenetics Molecular

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers And Alien Introgression Wheat Cytogenetics Molecular

9. Balancing eBooks and Physical Books And Alien Introgression Wheat Cytogenetics Molecular

- Benefits of a Digital Library
- Creating a Diverse Reading Collection And Alien Introgression Wheat Cytogenetics Molecular

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine And Alien Introgression Wheat Cytogenetics Molecular

- Setting Reading Goals And Alien Introgression Wheat Cytogenetics Molecular
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of And Alien Introgression Wheat Cytogenetics Molecular

- Fact-Checking eBook Content of And Alien Introgression Wheat Cytogenetics Molecular
- Distinguishing Credible Sources

### 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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