

Vijay Rani Rajpal  
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# Molecular Breeding for Sustainable Crop Improvement

Volume 2

# **Molecular Breeding For Sustainable Crop Improvement**

## **Volume 2 Sustainable Development And Biodiversity**

**Ranbir Chander Sobti**



## **Molecular Breeding For Sustainable Crop Improvement Volume 2 Sustainable Development And Biodiversity:**

*Molecular Breeding for Sustainable Crop Improvement* Vijay Rani Rajpal, S. Rama Rao, S.N. Raina, 2016-02-02 The world population is estimated to reach to more than 10 billion by the year 2050 These projections pose a challenging situation for the agricultural scientists to increase crops productivity to meet the growing food demands The unavailability and or inaccessibility to appropriate gene pools with desired traits required to carry out genetic improvement of various crop species make this task formidable for the plant breeders Incidentally most of the desired genes reside in the wild genetic relatives of the crop species Therefore exploration and characterization of wild genetic resources of important crop species is vital for the efficient utilization of these gene pools for sustainable genetic improvements to assure food security Further understanding the myriad complexities of genic and genomic interactions among species more particularly of wild relatives of crop species and or phylogenetically distant germplasm can provide the necessary inputs to increase the effectiveness of genetic improvement through traditional and or genetic engineering methods This book provides comprehensive and latest insights on the evolutionary genesis of diversity access and its utilization in the evolution of various crop species A comprehensive account of various crops origin exploitation of the primary secondary and tertiary gene pools through breeding biosystematical cytogenetical and molecular phylogenetical relationships and genetic enhancement through biotechnological interventions among others have been provided as the necessary underpinnings to consolidate information on the effective and sustainable utilization of the related genetic resources The book stresses upon the importance of wild germplasm exploration characterization and exploitation in the assimilation of important crop species The book is especially intended for students and scientists working on the genetic improvement of crop species Plant Breeders Geneticists Taxonomists Molecular Biologists and Plant Biotechnologists working on crop species are going to find this book very useful

*Biotechnologies of Crop Improvement, Volume 3* Satbir Singh Gosal, Shabir Hussain Wani, 2018-08-09 During the past 15 years cellular and molecular approaches have emerged as valuable adjuncts to supplement and complement conventional breeding methods for a wide variety of crop plants Biotechnology increasingly plays a role in the creation conservation characterization and utilization of genetic variability for germplasm enhancement For instance anther microspore culture somaclonal variation embryo culture and somatic hybridization are being exploited for obtaining incremental improvement in the existing cultivars In addition genes that confer insect and disease resistance abiotic stress tolerance herbicide tolerance and quality traits have been isolated and re introduced into otherwise sensitive or susceptible species by a variety of transgenic techniques Together these transformative methodologies grant access to a greater repertoire of genetic diversity as the genes may come from viruses bacteria fungi insects animals human beings unrelated plants or even be artificially derived Remarkable achievements have been made in the production characterization field evaluation and commercialization of transgenic crop varieties worldwide Likewise significant advances have been made towards increasing crop yields

improving nutritional quality enabling crops to be raised under adverse conditions and developing resistance to pests and diseases for sustaining global food and nutritional security The overarching purpose of this 3 volume work is to summarize the history of crop improvement from a technological perspective but to do so with a forward outlook on further advancement and adaptability to a changing world Our carefully chosen case studies of important plant crops intend to serve a diverse spectrum of audience looking for the right tools to tackle complicated local and global issues *Advanced Crop Improvement, Volume 2* Aamir Raina, Mohammad Rafiq Wani, Rafiul Amin Laskar, Nasya Tomlekova, Samiullah

Khan, 2023-09-07 As per the reports of FAO the human population will rise to 9 billion by the end of 2050 and 70% of more food must be produced over the next three decades to feed the additional population The breeding approaches for crop improvement programs are dependent on the availability and accessibility of genetic variation either spontaneous or induced by the mutagens Plant breeders agronomists and geneticists are under constant pressure to expand food production by employing innovative breeding strategies to enhance yield adaptability nutrition resistance to biotic and abiotic stresses In conventional breeding approaches introgression of genes in crop varieties is laborious and time consuming Nowadays new innovative plant breeding techniques such as molecular breeding and plant biotechnology supplement the traditional breeding approaches to achieve the desired goals of enhanced food production With the advent of recent molecular tools like genomics transgenics molecular marker assisted back crossing TILLING Eco TILLING gene editing CRISPR CAS non targeted protein abundant comparative proteomics genome wide association studies have made possible mapping of important QTLs insertion of transgenes reduction of linkage drags and manipulation of genome In general conventional and modern plant breeding approaches would be strategically ideal for developing new elite crop varieties to meet the feeding requirement of the increasing world population This book highlights the latest progress in the field of plant breeding and their applicability in crop improvement The basic concept of this 2 volume work is to assess the use of modern breeding strategies in supplementing the conventional breeding toward the development of elite crop varieties for obtaining desired goals of food production **Biotechnology Innovations and Sustainability for Zero Hunger** Ranbir Chander

Sobti, 2025-07-30 This reference book extensively examines the important role of biotechnology in tackling the global challenge of achieving zero hunger The book delves into cutting edge advancements and challenges in food biotechnology crop improvement genetic engineering and the utilization of genetically modified organisms GMOs in sustainable agriculture It provides a detailed examination of biotechnological interventions aimed at enhancing the nutritional content of crops increasing agricultural productivity and ensuring food security Furthermore the book explores the application of biotechnological techniques in improving animal based foods including advancements in animal breeding genetics and disease resistance The chapters also address the integration of traditional breeding approaches with biotechnology for developing healthier and more productive crops Additionally the book introduces approaches for reduction of food waste

through technological solutions and the use of automation and robotics in food processing This book is useful for researchers academicians and professionals of biotechnology agriculture food science and sustainability Key Features Covers cutting edge biotechnological technologies for sustainable agriculture providing solutions to address global hunger and achieve the goal of zero hunger Discusses various crop improvement techniques including genetic engineering and genetically modified organisms Focuses on biotechnological interventions for enhancing crop productivity and nutritional value to improve food availability and quality Presents a detailed discussion of crop protection strategies and disease resistance mechanisms Provides a thorough examination of advanced technologies for improving animal based foods and technology based artificial meat Examines the application of biotechnological techniques in developing innovative food systems for reducing food waste

**Genomic Prediction of Complex Traits** Nourollah Ahmadi,Jérôme Bartholomé,2022-04-22 This volume explores the conceptual framework and the practical issues related to genomic prediction of complex traits in human medicine and in animal and plant breeding The book is organized into five parts Part One reminds molecular genetics approaches intending to predict phenotypic variations Part Two presents the principles of genomic prediction of complex traits and reviews factors that affect its reliability Part Three describes genomic prediction methods including machine learning approaches accounting for different degree of biological complexity and reviews the associated computer packages Part Four reports on emerging trends such as phenomic prediction and incorporation into genomic prediction models of omics data and crop growth models Part Five is dedicated to lessons learned from cases studies in the fields of human health and animal and plant breeding and to methods for analysis of the economic effectiveness of genomic prediction Written in the highly successful Methods in Molecular Biology series format the book provides theoretical bases and practical guidelines for an informed decision making of practitioners and identifies pertinent routes for further methodological researches Cutting edge and thorough Complex Trait Predictions Methods and Protocols is a valuable resource for scientists and researchers who are interested in learning more about this important and developing field Chapters 3 9 13 14 and 21 are available open access under a Creative Commons Attribution 4 0 International License via link [springer.com](https://www.springer.com)

**Achieving sustainable cultivation of wheat Volume 2** Prof. Peter Langridge,2017-07-31 Reviews advances in cultivation practice such as seed establishment and more efficient irrigation techniques Summarises developments in climate smart agriculture such as conservation tillage and organic wheat cultivation Discusses ways of supporting smallholders improve wheat cultivation in North Africa and other regions in the developing world Biotechnologies of Crop Improvement, Volume 2 Satbir Singh Gosal,Shabir Hussain Wani,2018-07-09 During the past 15 years cellular and molecular approaches have emerged as valuable adjuncts to supplement and complement conventional breeding methods for a wide variety of crop plants Biotechnology increasingly plays a role in the creation conservation characterization and utilization of genetic variability for germplasm enhancement For instance anther microspore culture somaclonal variation embryo culture and somatic hybridization are being exploited

for obtaining incremental improvement in the existing cultivars. In addition, genes that confer insect and disease resistance, abiotic stress tolerance, herbicide tolerance, and quality traits have been isolated and re-introduced into otherwise sensitive or susceptible species by a variety of transgenic techniques. Together, these transformative methodologies grant access to a greater repertoire of genetic diversity as the genes may come from viruses, bacteria, fungi, insects, animals, human beings, unrelated plants, or even be artificially derived. Remarkable achievements have been made in the production, characterization, field evaluation, and commercialization of transgenic crop varieties worldwide. Likewise, significant advances have been made towards increasing crop yields, improving nutritional quality, enabling crops to be raised under adverse conditions, and developing resistance to pests and diseases for sustaining global food and nutritional security. The overarching purpose of this 3-volume work is to summarize the history of crop improvement from a technological perspective but to do so with a forward outlook on further advancement and adaptability to a changing world. Our carefully chosen case studies of important plant crops intend to serve a diverse spectrum of audience looking for the right tools to tackle complicated local and global issues.

**Beyond the Blueprint - Decoding the Elegance of Gene Expression** Kenji Ikehara, Morteza Seifi, 2024-12-19

Beyond the Blueprint: Decoding the Elegance of Gene Expression is a captivating exploration into the fundamental processes that underpin the intricate workings of life itself. Delving deep into the realm of genetics, this book unveils the mesmerizing world of gene expression, the remarkable mechanism by which the information encoded in our DNA is translated into functional proteins and ultimately shapes every aspect of our being. With a keen focus on the crucial players in this symphony of life, readers will embark on a journey to uncover the core elements of gene expression. From the orchestration of transcription factors and RNA polymerases at promoter regions to the influence of epigenetic modifications on gene regulation, the book paints a comprehensive and accessible picture of this dynamic process. As the narrative unfolds, readers will be captivated by the role of non-coding RNA in gene regulation and how environmental factors can subtly alter gene expression patterns. Moreover, the book delves into the interplay of gene expression during embryonic development, illuminating the incredible transformations that occur as cells differentiate into specialized tissues. Embracing the forefront of scientific advancements, Beyond the Blueprint: Decoding the Elegance of Gene Expression also examines the revolutionary realm of genetic engineering, showcasing how we can now manipulate gene expression for potential therapeutic applications and reshape the course of human evolution. With clarity and enthusiasm, this book seeks to demystify the complexities of gene expression, appealing to both seasoned researchers and curious minds alike. Beyond the Blueprint: Decoding the Elegance of Gene Expression promises to inspire a profound appreciation for the elegance of gene expression and its profound impact on the unfolding story of life.

**Routledge Handbook of Agricultural Biodiversity** Danny Hunter, Luigi Guarino, Charles Spillane, Peter C. McKeown, 2017-10-03

The world relies on very few crop and animal species for agriculture and to supply its food needs. In recent decades, there has been increased appreciation of the risk this implies for food security and quality.

especially in times of environmental change As a result agricultural biodiversity has moved to the top of research and policy agendas This Handbook presents a comprehensive overview of our current knowledge of agricultural biodiversity in a series of specially commissioned chapters It draws on multiple disciplines including plant and animal genetics ecology crop and animal science food studies and nutrition as well as social science subjects which explore the socio economic cultural institutional legal and policy aspects of agricultural biodiversity It focuses not only on the core requirements to deliver a sustainable agriculture and food supply but also highlights the additional ecosystem services provided by a diverse and resilient agricultural landscape and farming practices The book provides an indispensable reference textbook for a wide range of courses in agriculture ecology biodiversity conservation and environmental studies [Achieving sustainable cultivation of grain legumes](#) Volume 2 Dr Shoba Sivasankar,Dr David Bergvinson,Dr Pooran Gaur,Dr Shiv Kumar Agrawal,Dr Steve Beebe,Dr Manuele Tamò,2018-01-18 Detailed coverage of particular grain legumes Chapters on each key aspect of grain legume cultivation improved varieties and advances in cultivation techniques International range of authors with specific expertise in each grain legume

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