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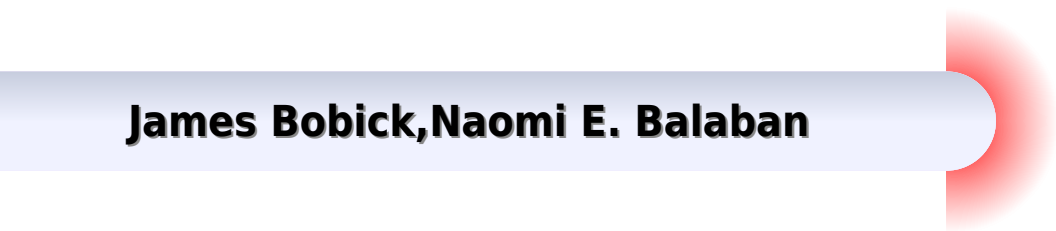
Transgenic Crop Plants

Volume 1:
Principles and Development

 Springer

Transgenic Crop Plants Volume 1 Principles And Development

James Bobick, Naomi E. Balaban



Transgenic Crop Plants Volume 1 Principles And Development:

Transgenic Crop Plants Chittaranjan Kole, Charles Michler, Albert G. Abbott, Timothy C. Hall, 2010-01-13 Development of transgenic crop plants their utilization for improved agriculture health ecology and environment and their socio political impacts are currently important fields in education research and industries and also of interest to policy makers social activists and regulatory and funding agencies This work prepared with a class room approach on this multidisciplinary subject will fill an existing gap and meet the requirements of such a broad section of readers Volume 1 with ten chapters contributed by 31 eminent scientists from nine countries deliberates on the basic concepts strategies and tools for development of transgenic crop plants including topics such as explants used for the generation of transgenic plants gene transfer methods organelle transformation selection and screening strategies expression and stability of transgenes silencing undesirable genes transgene integration biosynthesis and biotransformation and metabolic engineering of pathways and gene discovery **Applied Molecular Biotechnology** Muhammad Sarwar Khan, Iqrar Ahmad Khan, Debmalaya Barh, 2016-04-21 Applied Molecular Biotechnology The Next Generation of Genetic Engineering explains state of the art advances in the rapidly developing area of molecular biotechnology the technology of the new millennium Comprised of chapters authored by leading experts in their respective fields this authoritative reference text Highlights the latest omics ba **Alien Gene Transfer in Crop Plants, Volume 1** Aditya Pratap, Jitendra Kumar, 2013-11-01 Genetic engineering and biotechnology along with conventional breeding have played an important role in developing superior cultivars by transferring economically important traits from distant wild and even unrelated species to the cultivated varieties which otherwise could not have been possible with conventional breeding There is a vast amount of literature pertaining to the genetic improvement of crops over last few decades However the wonderful results achieved by crop scientists in food legumes research and development over the years are scattered in different journals of the World The two volumes in the series Alien Gene Transfer in Crop Plants address this issue and offer a comprehensive reference on the developments made in major food crops of the world These volumes aim at bringing the contributions from globally renowned scientists at one platform in a reader friendly manner The 1st volume entitled Alien Gene Transfer in Crop Plants Innovations Methods and Risk Assessment will deal exclusively with the process and methodology The contents of this volume have been designed to appraise the readers with all the theoretical and practical aspects of wide hybridization and gene transfer like processes and methods of gene transfer role of biotechnology with special reference to embryo rescue genetic transformation protoplast fusion and molecular marker technology problems such as cross incompatibility and barriers to distant hybridization and solutions to overcome them Since wild and weedy relatives of crop plants may have negative traits associated with them there are always possibilities of linkage drag while transferring alien alleles Therefore problems and limitations of alien gene transfer from these species will also be discussed in this series Further the associated risks with this and assessment of risks will also be given due

weightage **Plant, Abiotic Stress and Responses to Climate Change** Violeta Andjelkovic, 2018-05-23 Climate change is a serious problem influencing agricultural production worldwide and challenging researchers to investigate plant responses and to breed crops for the changed growing conditions Abiotic stresses are the most important for crop production affecting about 96.5% of arable land worldwide These stress factors include high and low temperature water deficit drought and flooding salinity heavy metals UV radiation light chemical pollutants and so on Since some of the stresses occurred simultaneously such as heat and water deficit causing the interactions of physiological processes novel multidisciplinary solutions are needed This book provides an overview of the present state in the research of abiotic stresses and molecular biochemical and whole plant responses helping to prevent the negative impact of global climate change **Recent Developments in Plant Breeding: Volume 1** Dharm Veer Singh, Kamaluddin, Vijay Sharma, Shiva Nath, 2024-10-08 This edited volume presents a thorough compilation of the most recent advancements in plant breeding It delves into a range of contemporary breeding and molecular techniques detailing their importance advantages and drawbacks in the pursuit of increased crop production This book is a valuable resource for educators researchers agricultural scientists capacity builders and policymakers who are seeking essential information Moreover graduate and undergraduate students studying agriculture and related disciplines can benefit from this book as a supplementary reading material **Omics Technologies and Bio-engineering** Debmalya Barh, Vasco Ariston De Car Azevedo, 2018-02-28 Omics Technologies and Bio Engineering Towards Improving Quality of Life Volume 2 is a unique reference that brings together multiple perspectives on omics research providing in depth analysis and insights from an international team of authors The book delivers pivotal information that will inform and improve medical and biological research by helping readers gain more direct access to analytic data an increased understanding on data evaluation and a comprehensive picture on how to use omics data in molecular biology biotechnology and human health care Covers various aspects of biotechnology and bio engineering using omics technologies Focuses on the latest developments in the field including biofuel technologies Provides key insights into omics approaches in personalized and precision medicine Provides a complete picture on how one can utilize omics data in molecular biology biotechnology and human health care Cell Biology Aubrey Stimola, 2011-01-15 Learn about cell biology what it is the people responsible for helping us understand it and how it affects us in the world today Crop Post-Harvest: Science and Technology, Volume 1 Peter Golob, Graham Farrell, John E. Orchard, 2008-04-15 World wide losses of crops post harvest through microbial action pests diseases and other types of spoilage amount to millions of tons every year This essential handbook is the first in a three volume series which covers all factors affecting post harvest quality of all major fruits vegetables cereals and other crops Compiled by members of the world renowned Natural Resources Institute at the University of Greenwich Chatham UK the comprehensive contents of this landmark publication encourage interactions between each sector of the agricultural community in order to improve food security food safety and food quality in today's

global atmosphere Through the carefully compiled and edited chapters internationally respected authors discuss ways to improve harvest yield and quality drawing on their many years practical experience and the latest research findings applications and methodologies Subjects covered include an introduction to the systems used in post harvest agricultural processes physical and biological factors affecting post harvest commodities storage issues pest management food processing and preservation food systems the latest research and assimilation of this work and current trade and international agreements An invaluable glossary showing important pests pathogens and plants is also included Crop Post Harvest Science and Technology Volume 1 Principles and Practice is a must have reference book which offers the reader an overview of the globalisation of post harvest science technology economics and the development of the storage and handling of perishable and durable products Volumes 2 and 3 will go on to explore durables and perishables individually in more detail with many case studies taken from around the globe This 3 volume work is the standard handbook and reference for all professionals involved in the harvesting shipping storage and processing of crops including agricultural and plant scientists food scientists and technologists microbiologists plant pathologists entomologists and all post harvest shipping and storage consultants Libraries in all universities and research establishments where these subjects are studied and taught should have multiple copies on their shelves

The Handy Science Answer Book James Bobick, Naomi E. Balaban, 2019-08-01 Informative easy to use guide to everyday science questions concepts and fundamentals celebrates its twenty fifth year and over one million copies sold Science is everywhere and it affects everything DNA and CRISPR Artificial sweeteners Sea level changes caused by melting glaciers Gravitational waves Bees in a colony The human body Microplastics The largest active volcano Designer dog breeds Molecules The length of the Grand Canyon Viruses and retroviruses The weight of a cloud Forces motion energy and inertia It can often seem complex and complicated but it need not be so difficult to understand The thoroughly updated and completely revised fifth edition of *The Handy Science Answer Book* makes science and its impact on the world fun and easy to understand Clear concise and straightforward this informative primer covers hundreds of intriguing topics from the basics of math physics and chemistry to the discoveries being made about the human body stars outer space rivers mountains and our entire planet It covers plants animals computers planes trains and cars This friendly resource answers more than 1 600 of the most frequently asked most interesting and most unusual science questions including When was a symbol for the concept of zero first used How large is a google Why do golf balls have dimples What is a chemical bond What is a light year What was the grand finale of the Cassini mission How many exoplanets have been discovered Where is the deepest cave in the United States How long is the Grand Canyon What is the difference between weather and climate What causes a red tide What is cell cloning and how is it used in scientific research How did humans evolve Do pine trees keep their needles forever What is the most abundant group of organisms How do insects survive the winter in cold climates Which animals drink seawater Why do geese fly in formation What is FrogWatch Why do cats eyes shine in the dark Which

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BIOTECHNOLOGY - Volume VIII Horst W. Doelle,J. Stefan Rokem,Marin Berovic,2009-11-16 This Encyclopedia of Biotechnology is a component of the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Biotechnology draws on the pure biological sciences genetics animal cell culture molecular biology microbiology biochemistry embryology cell biology and in many instances is also dependent on knowledge and methods from outside the sphere of biology chemical engineering bioprocess engineering information technology biorobotics This 15 volume set contains several chapters each of size 5000 30000 words with perspectives applications and extensive illustrations It carries state of the art knowledge in the field and is aimed by virtue of the several applications at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers and NGOs

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