

Allium

Crop Science: RECENT ADVANCES



Edited by H.D. Rabinowitch and L. Currah



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Allium Crop Science Recent Advances

Haim D. Rabinowitch, Brian Thomas



Allium Crop Science Recent Advances:

Allium Crop Science Haim D. Rabinowitch, Lesley Currah, 2002 The Alliums are some of the most ancient cultivated crops and include onions garlic leeks and other related plants This book provides an up to date review of Allium science for postgraduates and researchers It contains commissioned chapters on topics that have shown major advances particularly in the last ten years such as molecular biology floriculture and biofertilizers The Allium Genomes Masayoshi Shigyo, Anil Khar, Mostafa Abdelrahman, 2018-09-17 This book describes the latest advances in Allium genome research Allium includes plant species known for their huge nuclear genome size which makes them ideal for somatic chromosome observations in high school experiments In order to advance the genome analysis of A cepa and its functional study scientists in international research collaborations have developed several types of artificially manipulated genetic stocks and analyzed them using modern technologies The Allium vegetable crop includes garlic shallot wakegi onion Japanese bunching onion and rakkyo Bulb onion is one of the world s most important Allium commercial crops with an estimated annual production of 85.8 million tons in 2013 and ranking third after tomato and watermelon in terms of global vegetable crops *Advances in Plant Breeding Strategies: Vegetable Crops* Jameel M. Al-Khayri, S. Mohan Jain, Dennis V. Johnson, 2021-08-25 Plant breeders and geneticists are under constant pressure to sustain and expand food production by using innovative breeding strategies and introducing minor crops which are well adapted to marginal lands provide a source of nutrition and have abiotic and biotic stress tolerance to feed an ever increasing human population The basic concept of this book is to examine the use of innovative methods augmenting traditional plant breeding towards the improvement and development of new crop varieties under the increasingly limiting environmental and cultivation factors to achieve sustainable agricultural production and enhanced food security Three volumes of the book series *Advances in Plant Breeding Strategies* were published in 2015 2016 and 2018 respectively Volume 1 Breeding Biotechnology and Molecular Tools Volume 2 Agronomic Abiotic and Biotic Stress Traits and Volume 3 Fruits In 2019 the following four volumes were published Volume 4 Nut and Beverage Crops Volume 5 Cereals Volume 6 Industrial and Food Crops and Volume 7 Legumes In 2021 three volumes are being concurrently published Volume 8 Vegetable Crops Bulbs Roots and Tubers Volume 9 Vegetable Crops Fruits and Young Shoots and Volume 10 Vegetable Crops Leaves Flowerheads Green Pods Mushrooms and Truffles This Volume 10 subtitled *Vegetable Crops Leaves Flowerheads Green Pods Mushrooms and Truffles* consists of 14 chapters focusing on advances in breeding strategies using both traditional and modern approaches for the improvement of individual vegetable crops Chapters are arranged in 4 parts according to the edible vegetable parts Part I Leaves Chicory Cichorium intybus L Chinese cabbage Brassica rapa L var pekinensis Rocket salad Eruca vesicaria ssp sativa Mill Spring onion Allium fistulosum L Water spinach Ipomoea aquatica Forsk and Watercress Nasturtium officinale R Br Pat II Flowerheads and Green Pods Cauliflower Brassica oleracea var botrytis L Globe artichoke Cynara cardunculus var scolymus L Garden pea Pisum sativum L and Yardlong bean Vigna

unguiculata L Walp ssp sesquipedalis L Verdc Part III Mushrooms Enoki mushroom Flammulina velutipes Curtis Singer and Shiitake mushroom Lentinula edodes Berk Sing Part IV Truffles Desert truffles Terfezia spp and White truffle Tuber magnatum Picco and T borchii Vittad Each chapter comprehensively reviews the contemporary literature on the subject and reflects the experiences of the authors Chapters are written by internationally reputable scientists and subjected to a review process to assure quality presentation and scientific accuracy Each chapter begins with an introduction covering related backgrounds and provides in depth discussion of the subject supported with high quality color photos illustrations and relevant data The chapter concludes with recommendations for future research directions a comprehensive list of pertinent references to facilitate further reading and appendixes of genetic resources and concerned research institutes This book series is a valuable resource for advanced students researchers scientists commercial producers and seed companies as well as consultants and policymakers interested in agriculture particularly in modern breeding technologies Crop Post-Harvest: Science and Technology, Volume 3 Debbie Rees,Graham Farrell,John Orchard,2012-01-30 International trade in high value perishables has grown enormously in the past few decades In the developed world consumers now expect to be able to eat perishable produce from all parts of the world and in most cases throughout the year Perishable plant products are however susceptible to physical damage and often have a potential storage life of only a few days Given their key importance in the world economy Crop Post Harvest Science and Technology Perishables devotes itself to perishable produce providing current and comprehensive knowledge on all the key factors affecting post harvest quality of fruits and vegetables This volume focuses explicitly on the effects and causes of deterioration as well as the many techniques and practices implemented to maintain quality though correct handling and storage As highlighted throughout regular losses caused by post harvest spoilage of perishable products can be as much as 50% A complete understanding as provided by this excellent volume is therefore vital in helping to reduce these losses by a significant percentage Compiled by members of the world renowned Natural Resources Institute at the United Kingdom s University of Greenwich with contributions from experts around the world this volume is an essential reference for all those working in the area Researchers and upper level students in food science food technology post harvest science and technology crop protection applied biology and plant and agricultural sciences will benefit from this landmark publication Libraries in all research establishments and universities where these subjects are studied and taught should ensure that they have several copies for their shelves Vegetables II Jaime Prohens-Tomás,Fernando Nuez,2007-12-06 The production and consumption of vegetables has expanded dramatically in the last years with a global growth in the production of more than 50% in the last decade a rate of increase that is much higher than for other plant commodities Vegetables constitute an important part of a varied and healthy diet and provide significant amounts of vitamins antioxidants and other substances that prevent diseases and contribute to an improvement in the quality of life In consequence it is expected that in the coming years vegetable crops production will continue its

expansion Improved varieties have had a main role in the increases in yield and quality of vegetable crops In this respect the vegetables seed market is very dynamic and competitive and predominant varieties are quickly replaced by new varieties Therefore updated information on the state of the art of the genetic improvement of specific crops is of interest to vegetable crops breeders researchers and scholars During the last years an immense quantity of new knowledge on the genetic diversity of vegetables and the utilization of genetic resources breeding methods and techniques and on the development and utilization of modern biotechnologies in vegetables crop breeding has accumulated and there is a need of a major reference work that synthesizes this information This is our objective

Genomic Designing for Biotic Stress Resistant Vegetable Crops Chittaranjan Kole, 2022-07-02 Biotic stresses cause yield loss of 31 42% in crops in addition to 6 20% during post harvest stage Understanding interaction of crop plants to the biotic stresses caused by insects bacteria fungi viruses and oomycetes etc is important to develop resistant crop varieties Knowledge on the advanced genetic and genomic crop improvement strategies including molecular breeding transgenics genomics assisted breeding and the recently emerging genome editing for developing resistant varieties in vegetable crops is imperative for addressing FPNEE food health nutrition energy and environment security Whole genome sequencing of these crops followed by genotyping by sequencing have facilitated precise information about the genes conferring resistance useful for gene discovery allele mining and shuttle breeding which in turn opened up the scope for designing crop genomes with resistance to biotic stresses The nine chapters each dedicated to a vegetable crop or crop group in this volume will deliberate on different types of biotic stress agents and their effects on and interaction with crop plants will enumerate on the available genetic diversity with regard to biotic stress resistance among available cultivars illuminate on the potential gene pools for utilization in interspecific gene transfer will brief on the classical genetics of stress resistance and traditional breeding for transferring them to their cultivated counterparts will enunciate the success stories of genetic engineering for developing biotic stress resistant varieties will discuss on molecular mapping of genes and QTLs underlying biotic stress resistance and their marker assisted introgression into elite varieties will enunciate on different emerging genomics aided techniques including genomic selection allele mining gene discovery and gene pyramiding for developing resistant crop varieties with higher quantity and better quality and will also elaborate some case studies on genome editing focusing on specific genes for generating disease and insect resistant crops

Edible Alliums Haim D. Rabinowitch, Brian Thomas, 2022-11-22 Allium crops include more than 30 species many of which for e g onions shallots garlic leeks bunching onions and chives are of economic importance Bulb onions rank second only to tomatoes in terms of global production Alliums are farmed and harvested in a range of climatic conditions worldwide forming important parts of local diets This book provides a comprehensive review of major and minor Allium crops from scientific and horticultural perspectives It broadly covers modern biology including genetics and breeding propagation production processing and nutritional and health benefits This is an essential resource for scholars researchers and students

in plant science and agriculture in addition to molecular biologists plant breeders agronomists consultants and extension specialists

Onions and Other Vegetable Alliums James L. Brewster, 2008-01-01 Relates the production and utilization of onions and other vegetable allium crops to the many aspects of plant science underpinning their production and storage technologies This book covers species and crop types plant structure genetics and breeding physiology of growth and development as well as pests and diseases

Onions and Other Vegetable Alliums James L. Brewster, 2008 This fully revised expanded and updated edition of the successful text *Onions and Other Vegetable Alliums* relates the production and utilization of these familiar and important vegetable crops to the many aspects of plant science underpinning their production and storage technologies Chapters cover species and crop types plant structure genetics and breeding physiology of growth and development as well as pests and diseases production agronomy storage after harvest and the biochemistry of flavour storage carbohydrates and colour and how this relates to nutritional and health benefits From this wide perspective it is possible to see many examples where underlying scientific knowledge illuminates explains and can improve agronomic practice The reader will get an insight into how molecular methods are revolutionizing the study of taxonomy genetics pathology and physiology and how these methods are being applied in the breeding of improved crops

Vegetables Chittaranjan Kole, 2007-07-10 *Genome Mapping and Molecular Breeding in Plants* presents the current status of the elucidation and improvement of plant genomes of economic interest The focus is on genetic and physical mapping positioning cloning monitoring of desirable genes by molecular breeding and the most recent advances in genomics The series comprises seven volumes Cereals and Millets Oilseeds Pulses Sugar and Tuber Crops Fruits and Nuts Vegetables Technical Crops and Forest Trees Vegetables contains reviews in 12 chapters contributed by 31 authors from 10 countries Covered are tomato lettuce radish carrot beet eggplant cucurbits onion garlic and other crops included in Brassica rapa Brassica oleracea capsicums and cucurbits The impressive work that has been done on most of these crops is presented in this volume Genome projects already initiated on vegetable crops particularly on Solanaceae and Brassicaceae species may ignite further interest in other vegetables as well

Wild Crop Relatives: Genomic and Breeding Resources Chittaranjan Kole, 2011-08-17 Wild crop relatives are now playing a significant part in the elucidation and improvement of the genomes of their cultivated counterparts This work includes comprehensive examinations of the status origin distribution morphology cytology genetic diversity and available genetic and genomic resources of numerous wild crop relatives as well as of their evolution and phylogenetic relationship Further topics include their role as model plants genetic erosion and conservation efforts and their domestication for the purposes of bioenergy phytomedicines nutraceuticals and phytoremediation

Wild Crop Relatives Genomic and Breeding Resources comprises 10 volumes on Cereals Millets and Grasses Oilseeds Legume Crops and Forages Vegetables Temperate Fruits Tropical and Subtropical Fruits Industrial Crops Plantation and Ornamental Crops and Forest Trees It contains 125 chapters written by nearly 400 well known authors from about 40 countries

The Epidemiology of

Plant Diseases B. Michael Cooke, D. Gareth Jones, Bernard Kaye, 2006-06-18 Plant disease epidemiology is a dynamic science that forms an essential part of the study of plant pathology This book brings together a team of 35 international experts Each chapter deals with an essential component of the subject and allows the reader to fully understand how each exerts its influence on the progress of pathogen populations in plant populations over a defined time scale Since the first edition of the text was published in 1998 many new developments have occurred in the subjects covered particularly molecular diagnostics modelling fungicide resistance and information technology The second edition of the book is a comprehensive text on all aspects of plant disease epidemiology that should serve as an invaluable reference work for those involved in this fascinating science of crop plants *Plant Breeding Reviews, Volume 29* Jules Janick, 2007-01-02 Plant Breeding Reviews presents state of the art reviews on plant genetics and the breeding of all types of crops by both traditional means and molecular methods Many of the crops widely grown today stem from a very narrow genetic base understanding and preserving crop genetic resources is vital to the security of food systems worldwide The emphasis of the series is on methodology a fundamental understanding of crop genetics and applications to major crops It is a serial title that appears in the form of one or two volumes per year **The Physiology of Vegetable Crops, 2nd Edition** Hans Christian Wien, Hartmut Stützel, 2020-05-01 Completely updated and revised this bestselling book continues to explain the growth and developmental processes involved in the formation of vegetables Since the publication of the successful first edition significant discoveries particularly in the area of molecular biology have deepened and broadened our knowledge and understanding of these processes This new edition brings the topic up to date and is presented over two sections the first provides general knowledge on germination transplanting flowering the effects of stress and modelling whilst the second section details the physiology of specific crops or crop groups *Gene Pool Diversity and 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

Horticultural Reviews, Volume 46 Ian Warrington, 2018-11-13 Horticultural Reviews presents state of the art reviews on topics in horticultural science and technology covering both basic and applied research Topics covered include the horticulture of fruits vegetables nut crops and ornamentals These review articles written by world authorities bridge the gap between the specialized researcher and the broader community of horticultural scientists and teachers

Innovations in Biotechnology Eddy C. Agbo, 2012-02-17 Innovations in Biotechnology provides an authoritative crystallization of some of the evolving leading edge biomedical research topics and developments in the field of biotechnology It is aptly written to integrate emerging basic research topics with their biotechnology applications It also challenges the reader to appreciate the role of biotechnology in society addressing clear questions relating to biotech policy and ethics in the context of the research advances In an era of interdisciplinary collaboration the book serves an excellent indepth text for a broad range of readers ranging from social scientists to students researchers and policy makers Every topic weaves back to the same bottom line how does this discovery impact society in a positive way

Handbook of Spices in India: 75 Years of Research and Development P N Ravindran, K Sivaraman, S Devasahayam, K Nirmal Babu, 2024-06-24 This compendium presents comprehensive information on more than 25 important spice crops commercially grown in India and traded globally apart from over 40 spices that have the potential to be popularized In 70 chapters the book covers the achievements in research and development made in India for the past 75 years in various organizations including research institutes agricultural universities and private sector laboratories Spices are natural products of plant origin used primarily for flavouring and seasoning or for adding pungency and flavour to foods and beverages The flavour and fragrance of Indian spices had a magic spell on human culture since very ancient days The importance of spices in Indian life and its contribution to the economy are substantial India as the world s leading producer of spices is also a significant stakeholder in spices export trade globally Indian spices being sources of many high value compounds are also gaining much importance for other diversified uses especially for their pharmaceutical and nutraceutical properties A wide variety of 52 spices are grown in India including black pepper chillies cardamom ginger turmeric cinnamon nutmeg garlic onion cumin coriander saffron and vanilla This book compiles a comprehensive holistic review on the subject written by the best experts in the field in India representing diverse agencies This book is a single point reference book for all those involved in the research study teaching and use of spices in

India and abroad Production Technology of Underutilized Vegetable Crops Savita, Monisha Rawat, Vrince Vimal, 2023-04-20 This volume discusses the nutraceutical importance production technologies management and cultivation practices of underutilized vegetables which can be described as those vegetable crops which are neither grown commercially on a large scale nor traded widely While much of the crops addressed in the book are cultivated traded and consumed at the local level there are over 60 species of minor vegetables with high growth and yield potentials that are not cultivated to a large extent for greater populations This work highlights the production technologies needed to grow these vegetables on a larger scale and under various adverse soil and climatic conditions and their nutritional and medical benefits to assist with food security health and poverty alleviation in rural areas Production of underutilized vegetables is low due to the unavailability of planting material lack of awareness about the nutritional and medicinal importance among the farmers and inadequate information on the production techniques of these crops In this context there is an urgent need to take up a program on genetic resources exploration management utilization and improvement of underutilized vegetable crops to ensure food and nutritional security Readers will learn about these technologies and practices while also learning about the unique properties and benefits of these underutilized vegetables The book will be useful for academicians and researchers focusing on vegetable production and breeding as well as farmers and sustainability scientists looking for underexplored sources of nutrition to benefit large rural populations **Fundamental and Applied Scientific Research in the Development of Agriculture in the Far East (AFE-2022)** Khasanov Sayidjakhon Zokirjon ugli, Aleksei Muratov, Svetlana Ignateva, 2024-02-09 The scope of this book is cyber physical systems used for the sustainable development and productivity of the agricultural sector The book contains proceedings of the conference Fundamental and Applied Scientific Research in the Development of Agriculture in the Far East AFE 2022 Tashkent Uzbekistan The results of research in the following areas are presented here software as a service solutions for orchard management ICT components of Smart Agriculture SA farm management platforms yield monitoring and estimation IoTs in farming water management and smart agriculture machines The book contains information on the latest technologies in precision agriculture including real time technology and big data analytics fertilizer and sprayer controllers robotics variable rate irrigation networks and remote sensing technologies etc The research results presented in the book help in making the right decisions about the allocation of resources in agricultural systems

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