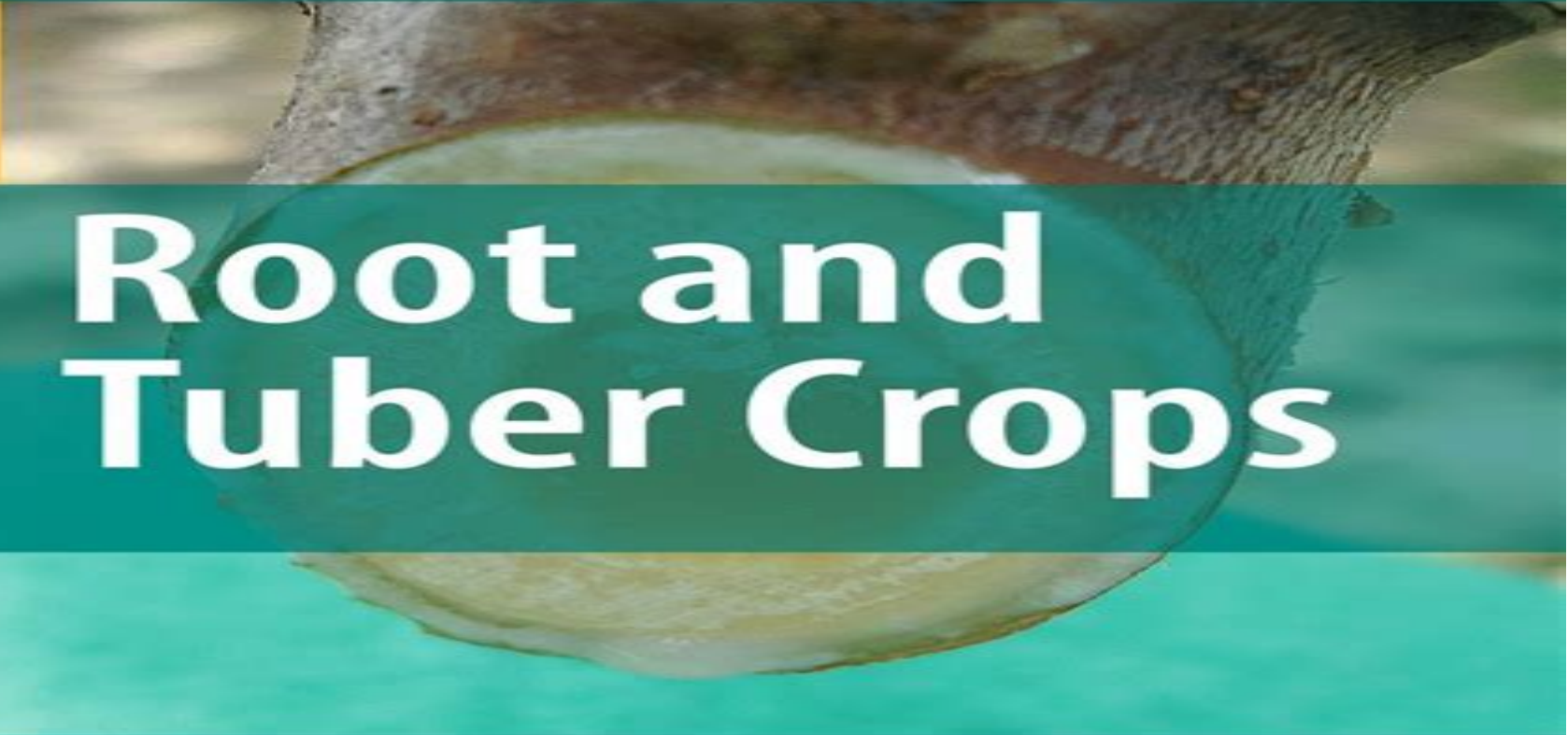


HANDBOOK OF PLANT BREEDING

J.E. Bradshaw
Editor



Root and Tuber Crops

 Springer

Root And Tuber Crops 7 Handbook Of Plant Breeding

Mohammad Pessarakli



Root And Tuber Crops 7 Handbook Of Plant Breeding:

Root and Tuber Crops J.E. Bradshaw, 2010-09-11 It is important to include Tuber and Root Crops in the Handbook of Plant Breeding They include starchy staple crops that are of increasing importance for global food security and relief of poverty important millennium goals for the United Nations Indeed 2008 was the UN International Year of the Potato in recognition of this role of the potato as the world's third most important food crop after wheat and rice The other major staples are cassava sweetpotato and yam Together they occupy about 50 million hectares with production at 640 million metric tons of which 70% is in developing countries In total there are more than 30 species of Root and Tuber Crops grown in the world today Given the content of other volumes in the series it makes sense to include sugar and fodder beets swedes and turnips and minor root and tuber crops so that the book series is as complete as possible Like the other volumes in the series this one will present information on the latest in applied plant breeding using the current advances in the field from an efficient use of genetic resources to the impact of biotechnology in plant breeding Seven crop specific chapters are proposed together with an introduction to this diverse set of plant species Outstanding scientists for each crop species are proposed as senior authors who may invite co authors to contribute part of a chapter In order to increase the overall acceptance of the volume balance will be sought with authors from different research groups countries who will be asked to contribute and collaborate where appropriate The book should be of interest to researchers in both academic and industrial settings and in both developed and developing countries as well as students and teachers of plant breeding It is currently extremely important to educate and train a new generation of plant breeders given the challenges faced by humankind in producing more food for an expanding global population during a period of environmental including climate change **Plant**

Breeding: Past, Present and Future John E. Bradshaw, 2016-03-08 This book aims to help plant breeders by reviewing past achievements currently successful practices and emerging methods and techniques Theoretical considerations are also presented to strike the right balance between being as simple as possible but as complex as necessary The United Nations predicts that the global human population will continue rising to 9.0 billion by 2050 World food production will need to increase between 70-100 per cent in just 40 years First generation bio fuels are also using crops and cropland to produce energy rather than food In addition land area used for agriculture may remain static or even decrease as a result of degradation and climate change despite more land being theoretically available unless crops can be bred which tolerate associated abiotic stresses Lastly it is unlikely that steps can be taken to mitigate all of the climate change predicted to occur by 2050 and beyond and hence adaptation of farming systems and crop production will be required to reduce predicted negative effects on yields that will occur without crop adaptation Substantial progress will therefore be required in bridging the yield gap between what is currently achieved per unit of land and what should be possible in future with the best farming methods and best storage and transportation of food given the availability of suitably adapted cultivars including adaptation

to climate change My book is divided into four parts Part I is an historical introduction Part II deals with the origin of genetic variation by mutation and recombination of DNA Part III explains how the mating system of a crop species determines the genetic structure of its landraces Part IV considers the three complementary options for future progress use of sexual reproduction in further conventional breeding base broadening and introgression mutation breeding and genetically modified crops

Principles of Plant Genetics and Breeding George Acquaah, 2020-12-14 The revised edition of the bestselling textbook covering both classical and molecular plant breeding Principles of Plant Genetics and Breeding integrates theory and practice to provide an insightful examination of the fundamental principles and advanced techniques of modern plant breeding Combining both classical and molecular tools this comprehensive textbook describes the multidisciplinary strategies used to produce new varieties of crops and plants particularly in response to the increasing demands of growing populations Illustrated chapters cover a wide range of topics including plant reproductive systems germplasm for breeding molecular breeding the common objectives of plant breeders marketing and societal issues and more Now in its third edition this essential textbook contains extensively revised content that reflects recent advances and current practices Substantial updates have been made to its molecular genetics and breeding sections including discussions of new breeding techniques such as zinc finger nuclease oligonucleotide directed mutagenesis RNA dependent DNA methylation reverse breeding genome editing and others A new table enables efficient comparison of an expanded list of molecular markers including Allozyme RFLPs RAPD SSR ISSR DAMD AFLP SNPs and ESTs Also new and updated Industry Highlights sections provide examples of the practical application of plant breeding methods to real world problems This new edition Organizes topics to reflect the stages of an actual breeding project Incorporates the most recent technologies in the field such as CRISPR genome editing and grafting on GM stock Includes numerous illustrations and end of chapter self assessment questions key references suggested readings and links to relevant websites Features a companion website containing additional artwork and instructor resources Principles of Plant Genetics and Breeding offers researchers and professionals an invaluable resource and remains the ideal textbook for advanced undergraduates and graduates in plant science particularly those studying plant breeding biotechnology and genetics

Advances in Plant Breeding Strategies: Vegetable Crops Jameel M. Al-Khayri, S. Mohan Jain, Dennis V. Johnson, 2021-08-24 This book examines the development of innovative modern methodologies towards augmenting conventional plant breeding in individual crops for the production of new crop varieties under the increasingly limiting environmental and cultivation factors to achieve sustainable agricultural production enhanced food security in addition to providing raw materials for innovative industrial products and pharmaceuticals This Volume 8 subtitled Vegetable Crops Bulbs Roots and Tubers consists of 12 chapters focusing on advances in breeding strategies using both traditional and modern approaches for the improvement of individual vegetable crops Chapters are arranged in 3 parts according to the edible vegetable parts Part I Bulbs Garlic *Allium sativum* L Leek *Allium ampeloprasum* L and Shallot *Allium*

cepa L Aggregatum group Part II Roots Beetroot Beta vulgaris ssp vulgaris var conditiva Alefeld Carrot Daucus carota L Parsnip Pastinaca sativa L Radish Raphanus sativus L Sugar beet Beta vulgaris ssp vulgaris L and Turnip Brassica rapa var rapa L Part III Tubers Potato Solanum tuberosum L and Sweet potato Ipomea batatas L The chapters were contributed by 38 internationally reputable scientists from 13 countries Each chapter comprehensively reviews the modern literature on the subject and reflects the authors own experience **Tropical Roots and Tubers** Harish K. Sharma, Nicolas Y.

Njintang, Rekha S. Singhal, Pragati Kaushal, 2016-08-23 Roots and tubers are considered as the most important food crops after cereals and contribute significantly to sustainable development income generation and food security especially in the tropical regions The perishable nature of roots and tubers demands appropriate storage conditions at different stages starting from farmers to its final consumers Because of their highly perishable nature search for efficient and better methods of preservation processing have been continuing alongside the developments in different arena This book covers the processing and technological aspects of root and tuber foods detailing the production and processing of roots and tubers such as taro cassava sweet potato yam and elephant foot yam Featuring chapters on anatomy taxonomy and physiology molecular and biochemical characterization GAP GMP HACCP Storage techniques as well as the latest technological interventions in Taro Cassava Sweet potato yam and Elephant foot Yam *Tropical Root and Tuber Crops, 2nd Edition*

Vincent Lebot, 2019-12-02 Root and tuber crops are important to agriculture food security and income for 2.2 billion people in developing countries These species produce large quantities of dietary energy and have stable yields under difficult environmental conditions This second edition of Tropical Root and Tuber Crops is an authoritative treatment of four important root and tuber crops cassava sweet potato yams and aroids *Handbook of Plant and Crop Stress, Fourth Edition*

Mohammad Pessarakli, 2019-08-06 Since the publication of the third edition of the Handbook of Plant and Crop Stress continuous discoveries in the fields of plant and crop environmental stresses and their effects on plants and crops have resulted in the compilation of a large volume of the latest discoveries Following its predecessors this fourth edition offers a unique and comprehensive collection of topics in the fields of plant and crop stress This new edition contains more than 80% new material and the remaining 20% has been updated and revised substantially This volume presents 10 comprehensive sections that include information on soil salinity and sodicity problems tolerance mechanisms and stressful conditions plant crop responses plant crop responses under pollution and heavy metal plant crop responses under biotic stress genetic factors and plant crop genomics under stress conditions plant crop breeding under stress conditions empirical investigations improving tolerance and beneficial aspects of stressors Features Provides exhaustive coverage written by an international panel of experts in the field of agriculture particularly in plant crop stress areas Contains 40 new chapters and 10 extensively revised and expanded chapters Includes three new sections on plant breeding stress exerted to weeds by plants and beneficial aspects of stress on plants crops Numerous case studies With contributions from 100 scientists and experts from

20 countries this Handbook provides a comprehensive resource for research and for university courses covering soil salinity sodicity issues and plant crop physiological responses under environmental stress conditions ranging from cellular aspects to whole plants The content can be used to plan implement and evaluate strategies to mitigate plant crop stress problems This new edition includes numerous tables figures and illustrations to facilitate comprehension of the material as well as thousands of index words to further increase accessibility to the desired information

Achieving sustainable cultivation of potatoes Volume 1 Prof. Gefu Wang-Pruski,2018-08-09 Reviews latest research on understanding potato plant physiology and genetic variety Discusses major advances in conventional and hybrid breeding as well as their application in improved varieties Focuses on ways of supporting smallholders in key regions such as Africa

Genetically Modified Plants and Beyond Idah Sithole-Niang,2022-05-18 Genetically Modified Plants and Beyond takes a fresh look at methodologies used in developing crop plants discusses genome editing and interrogates the regulatory approaches that different countries are proposing to use to regulate genetically modified GM vs genome edited crop plants The book focuses on root and tuber crops ginger and industrial oil seed crops A chapter on the production of pharmaceuticals in plants is also included Going beyond the usual debate the book includes case studies from Africa on the adoption of GM crops

Sugar Beet Cultivation, Management and Processing Varucha Misra,Santeshwari Srivastava,Ashutosh Kumar Mall,2022-08-21 This book is a compilation of advancements and achievements in the field of sugar beet cultivation It covers recent research and up to date information on this crop It discusses essential aspects for high production and good yield development and crop management such as origin breeding seed production physiology pathology entomology biotechnology and post harvest technology Sugar beet is known as an alternative crop for sugar production A versatile crop having numerous uses besides being raw material for sugar production its molasses contain high amount of betaine which is used as a feed supplement Due to its value profile it has attracted the millers and farmers alike This book is of interest to teachers researchers agriculture scientists capacity builders and policymakers Also the book serves as additional reading material for graduate students of agriculture forestry ecology and soil science National and international agricultural scientists policy makers will also find this to be a useful read

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