

Monographs on
Theoretical and Applied Genetics 2

R. Frankel · E. Galun

Pollination Mechanisms,
Reproduction
and Plant Breeding



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Pollination Mechanisms Reproduction And Plant Breeding Monographs On Theoretical And Applied Genetics Volume

W. Gottschalk, G. Wolff



Pollination Mechanisms Reproduction And Plant Breeding Monographs On Theoretical And Applied Genetics Volume :

Pollination Mechanisms, Reproduction and Plant Breeding R. Frankel, Esra Galun, 2012-12-06 view than its own proper males should fecundate each blossom ANDREW KNIGHT Philosophical Transactions 1799 Pollination mechanisms and reproduction have a decisive bearing upon rational procedures in plant breeding and crop production This book intends to furnish under one cover an integrated botanical genetical and breeding methodological treatment of the reproductive biology of spermatophytes mainly angiosperms it is based on an advanced topical course in plant breeding taught at the Hebrew University of Jerusalem We have tried to present a coverage which is concise but as comprehensive as possible of the pollination mechanism and modes of reproduction of higher plants and to illustrate topics whenever practicable by examples from cultivated plants Nevertheless some relevant publications may have escaped our attention or may not be mentioned because of various limitations The book is organized into three parts The first part starts with an evaluation of the significance of the different pollination mechanisms for plant breeding and crop production describes modes of reproduction in higher plants and discusses ecology and dynamics of pollination The second part is devoted to crops propagated by self pollination and describes specific breeding procedures for such crops The third part details sexual reproduction in higher plants and handles three mechanisms involved in the prevention of self pollination and their utilization in plant breeding sex expression incompatibility and male sterility

Principles and Procedures of Plant Breeding G. S. Chahal, S. S. Gosal, 2002 Covering traditional and emerging breeding procedures this book explores the scientific bases and details of breeding plants It puts a special emphasis on the further refinements possible in the light of the latest developments in molecular biology Specific breeding methods in self and cross pollinated crops their genetic basis and scope of further refinements concepts and techniques of tissue culture molecular biology and production of transgenic plants commonly used experimental designs in plant breeding seed production and implications of plant breeder's rights are other highlights

The Pollination Biology of North American Orchids: Volume 2 Charles L. Argue, 2011-09-21 Recent studies have revealed remarkable complexity and diversity in orchid pollinator relationships These studies comprise a vast literature currently scattered in numerous often obscure journals and books The Pollination Biology of North American Orchids brings together for the first time a comprehensive treatment of this information for all native and introduced North American orchids found north of Mexico and Florida It provides detailed information on genetic compatibility breeding systems pollinators pollination mechanisms fruiting success and limiting factors for each species Distribution habitat and floral morphology are also summarized In addition detailed line drawings emphasize orchid reproductive organs and their adaptation to known pollinators This the second of two volumes treats the subfamily Orchidoideae with the tribe Cranichideae This is followed by examination of the seven North American tribes of subfamily Epidendroideae and the single North American tribe of

subfamily Vanilloideae The Pollination Biology of North American Orchids will be of interest to both regional and international audiences including Researchers and students in this field of study who are currently required to search through the scattered literature to obtain the information gathered here Researchers and students in related fields with an interest in the co evolution of plants and insects Conservation specialists who need to understand both the details of orchid reproduction and the identity of primary pollinators in order to properly manage the land for both Orchid breeders who require accurate and current information on orchid breeding systems General readers with an interest in orchid biology Charles Argue Ph D is a plant biologist at the University of Minnesota specializing in the study of pollen grains His articles have appeared in numerous journals including the American Journal of Botany International Journal of Plant Sciences formerly Botanical Gazette Botany formerly Canadian Journal of Botany Grana Pollen et Spores North American Native Orchid Journal The Native Orchid Conference Journal Fremontia and as chapters in a number of books

Population Dynamics and the Tribolium Model: Genetics and Demography Robert F. Costantino, Robert A. Desharnais, 2012-12-06 The study of populations is becoming increasingly focused on dynamics We believe there are two reasons for this trend The first is the impact of nonlinear dynamics with its exciting ideas and colorful language bifurcations domains of attraction chaos fractals strange attractors Complexity which is so very much a part of biology now seems to be also a part of mathematics A second trend is the accessibility of the new concepts The barriers to communication between theorist and experimentalist seem seamless impenetrable The active participation of the experimentalist means that the theory will obtain substance Our role is the application of the theory of dynamics to the analysis of biological populations We began our work early in 1979 by writing an ordinary differential equation for the rate of change in adult numbers which was based on an equilibrium model proposed a decade earlier During the next few months we filled our notebooks with straightforward deductions from the model and its associated biological implications Slowly some of the biological observations were explained and papers followed on a variety of topics genetic and demographic stability stationary probability distributions for population size population growth as a birth death process natural selection and density dependent population growth genetic disequilibrium and the stationary stochastic dynamics of adult numbers

Cytogenetics in Plant Breeding J.

Sy Benga, 2012-12-06 An introductory discussion of basic chromosome structure and function precedes the main text on the application of cytogenetic approaches to the analysis of the manipulation of both the genetic make up and the genetic transmission system of plant breeding material Analysis using light and electron microscopy segregations and molecular techniques yields information for assessing the material before and after manipulation Much attention is given to quantitative methods Manipulation not only involves the construction of specific genotypes but also chromosomal transmission systems Although analysis and manipulation in the somatic cycle are considered the focus is on the generative cycle with emphasis on analysis and subsequent segregation of specifically constructed material The book is intended for plant breeders and other

scientists interested in the analysis and manipulation of breeding material at the chromosomal level Comparisons with molecular and cell biological approaches are made and the potential of the various methods is evaluated

Breeding Oilseed Brassicas Kuldeep S. Labana, Surinder S. Banga, Shashi K. Banga, 2013-11-09 The present status of rapeseed mustard crops as the third most important source of edible oils is attributable to the success of plant breeders and associate researchers in developing high yielding varieties with improved quality and resistance to biotic and abiotic stresses However the need to maximize the production gains and quality at lower economic costs is greater than ever before Breeding Oilseed Brassicas was thus conceived to review the past accomplishments in order to identify research gaps and suggest ways and means to meet the challenge of sustainable productivity upgradation Theoretical and applied aspects of breeding genetics cytogenetics crop physiology and biotechnology are covered The emphasis is on the application of theoretical knowledge to the solution of problems that confront the Brassica breeders

Induced Mutations in Plant Breeding W. Gottschalk, G. Wolff, 2012-12-06 Mutation breeding has been introduced into modern plant breeding in the early 1940 s In spite of pessimistic predictions the application of experimental mutagenesis has led to encouraging results demonstrating that mutation breeding is a well functioning method in many crops So far more than 500 varieties developed by means of induced mutations have been officially released others have been approved for registration Many mutants with characters of agronomic interest cannot be utilized directly because of their unsatisfying yielding capacities or of other negative traits which are partly due to the pleiotropic action of the mutant genes Sometimes their negative selection value can be overcome by transferring them into the genomes of other varieties According to experience available the efficiency of mutant genes can considerably vary depending on the genotypic background in which they become effective The interactions between mutant genes and genotypic background cannot be predicted Therefore mutants with valuable traits should be crossed with many varieties and strains in order to discern positive and negative interactions In this way genotypes can be selected in which the mutant gene is able to express its action without showing negative by effects This procedure has been used for about 10 years by combining the methods of mutation and crossbreeding Mutation breeding is predominantly used in annual diploid and allo polyploid self fertilizing crops while it causes much more difficulties in cross pollinating species

The Wheat Rusts — Breeding for Resistance Douglas R. Knott, 2012-12-06 The idea for this book was conceived by the late Dr Irvine A Watson of the University of Sydney and he developed the first outline I was then invited by Dr Watson to share in its writing Unfortunately shortly thereafter recurring heart problems forced him to curtail his activities and withdraw from the project He died before the book could be completed Dr Watson's intention was to produce a very practical book that would provide wheat breeders with all of the information necessary to breed successfully for resistance to the three wheat rusts leaf rust stem rust and yellow rust It was intended to be very specific in describing procedures to be used and at the same time provide all of the necessary theoretical background I hope that I have been successful in meeting these objectives The book

assumes that the reader has some knowledge of plant pathology genetics and plant breeding Extensive use has been made of the literature but it was not possible to cite all of the papers on a given topic In making a choice an attempt was made to choose key papers or more recent papers that provided references to the earlier literature Acknowledgements This book was written partly at the University of Saskatchewan and partly at the University of California Davis while I was on a sabbatical leave

Tree Breeding: Principles and Strategies G. Namkoong, H. C. Kang, J. S. Brouard, 2012-12-06 It has become apparent during discussions with students and colleagues in forest genetics that a universal concern is the achievement of diverse goals of forestry from fiber production in industrial as well as farm forests to conserving forest ecosystems Although we generally have several breeding methods available and several species to breed we seek to satisfy multiple use goals on diverse sites by management techniques that at best can only partially control edaphic environmental variation The dominant approach which was agriculturally motivated has involved intensive effort with complicated breeding plans on single species for uniform adaptability and single product plantations However this is obviously neither the only nor necessarily the best solution for the genetic management of tree species and thus our intent in this volume is to develop ways to achieve multiple objectives in tree breeding We include an array of breeding plans from simple iterated designs to sets of multiple populations capable of using gene actions for different traits in different environments for uncertain futures The presentation is organized around the development of breeding from single to multiple option plans from single to multiple traits from single to multiple environments and from single to multiple populations However it is not a complete How To book and includes neither exercises nor instructions on data handling It also does not include discussion of all modes of reproduction and inheritance encountered in plants

Genetic and Molecular Basis of Plant Pathogenesis J.E. Vanderplank, 2012-12-06 As befits a volume in the Advanced Series in Agricultural Sciences this book was written with problems of practical agriculture in mind One of the ways of controlling plant disease is by using resistant cultivars and from the wide literature of genetics and biochemistry in plant pathology I have emphasized what seems to bear most closely on breeding for disease resistance This has a double advantage for it happens all to the good that this emphasis is also an emphasis on primary causes of disease as distinct from subsequent processes of symptom expression and other secondary effects The chapters are entirely modern in outlook The great revolution in biology this century had its high moments in the elucidation of the DNA double helix in 1953 and the deciphering of the genetic code in 1961 This book so far as I know is the first in plant pathology to be conceived within the framework of this new biology Half the book could not have been written 20 years ago even if there had then been available all the literature that has since accumulated on the genetics and chemistry of plant disease The new biology is the cement this book uses to bind the literature together Another feature of this book is an emphasis on thermodynamics

Cytogenetics of the Festuca-Lolium Complex Prem P. Jauhar, 2012-12-06 Presented here are modern and classical aspects of cytogenetics as well as biotechnology in relation to improvement of the Festuca Lolium

group of grasses Festuca and its close relative Lolium are very valuable genera of temperate agriculture. These fascinating genera contain some highly productive nutritious and well adapted grasses widely used for agricultural and recreational purposes world wide. The book is organized into 15 chapters devoted to taxonomy and systematics, species evolution and divergence by increase in chromosome number as well as by change in DNA content, genetic control of chromosome pairing and its breeding and phylogenetic implications, B chromosomes induced polyploidy and haploidy in relation to varietal improvement, wide hybridization, genome relationships and plant improvement, genomic balance in relation to hybrid fertility and heterosis, breeding biotechnology and its potential applications in plant improvement. It is of special interest to geneticists, taxonomists, evolutionists, biotechnologists and plant breeders.

Evolution and Function of Heterostyly

Spencer C.H. Barrett, 2013-04-17. A century of research on heterostylous plants has passed since the publication of Charles Darwin's book *The Different Forms of Flowers on Plants of the Same Species* in 1877, summarizing his extensive observations and experiments on these complex breeding systems involving genetic polymorphisms of floral sex organs. Since then heterostylous plants have provided a rich source of material for evolutionary biologists and today they represent one of the classic research paradigms for approaches to the study of evolution and adaptation. The present book is the first modern and comprehensive account of the subject. In 10 chapters it is concerned with the evolution, genetics, development, morphology and adaptive significance of heterostyly. Broad syntheses of research on heterostyly as well as new theoretical ideas and experimental data are included.

Male Sterility in Higher Plants Mohan L.H. Kaul, 2012-12-06. Nature has something more in view than that its own proper males should fecundate each blossom. Andrew Knight, *Philosophical Transactions* 1799. Sterility implicating the male sex solely presents a paradoxical situation in which universality and uniqueness are harmoniously blended. It maintains a built in outbreeding system but is not an isolating mechanism as male steriles, the self emasculated plants, outcross with their male fertile sibs normally. Both genes nuclear and cytoplasmic and environment individually as well as conjointly induce male sterility, the former being genetic and the latter nongenetic. Genetic male sterility is controlled either exclusively by nuclear genes *ms* or by the complementary action of nuclear *Ir* and cytoplasmic *c* genes. The former is termed genic and the latter gene cytoplasmic male sterility. Whereas genic male sterility exhibits Mendelian inheritance, gene cytoplasmic male sterility is non Mendelian with specific transmissibility of the maternal cytoplasm type. Genetic male sterility is documented in 617 species and species crosses comprising 320 species, 162 genera and 43 families. Of these, genic male sterility occurs in 216 species and 17 species crosses and gene cytoplasmic male sterility in 16 species and 271 species crosses. The predominance of species exhibiting genic male sterility and of species crosses exhibiting gene cytoplasmic male sterility is due to the fact that for the male sterility expression in the former, mutation of nuclear genes is required but in the latter, mutations of both nuclear and cytoplasmic genes are necessary.

Genetic

Improvement of Tomato G. Kalloo, 2012-12-06. The esculent *Lycopersicon esculentum* long thought to be poisonous has

become a major U S food crop and source of vitamins and minerals thanks largely to genetic modification and new production technology Rick 1978 Tomato *Lycopersicon esculentum* Mill is one of the most important solana ceous vegetable crops grown worldwide under outdoor and indoor conditions It has become an important commercial crop so far as the area production industrial values and its contribution to human nutrition is concerned During the past few decades tremendous developments have contributed to the knowledge and understanding of various areas of genetics breeding and biotechnology and voluminous literature has been generated The purpose of preparing this monograph is to give a comprehensive up to date treatment to the various aspects of genetic improvement of tomato The emphasis has been placed on cytology classical and molecular genetics reproductive biology germplasm resources hybrid seed production use of wild taxa selection breeding methods breeding for abiotic and biotic stresses processing and quality breeding improvement for mechanical harvesting and biotechnology tissue culture protoplast fusion and genetic transformation These topics are presented in 22 different chapters However a few aspects have been discussed in more than one chapter For example seed production is treated in chapters 1 4 and 8 molecular biology genetic engineering in chapters 3 and 22 and heterosis in chapters 8 and 16

Handbook of Flowering Abraham H. Halevy, 2019-07-23 These volumes are an exhaustive source of information on the control and regulation of flowering They present data on the factors controlling flower induction and how they may be affected by climate and chemical treatments For each plant specific information is provided on all aspects of flower development including sex expression requirements for flowering initiation and development photoperiod light density vernalization and other temperature effects and interactions Individual species are described from the standpoint of juvenility and maturation morphology induction and morphogenesis to anthesis All information is presented alphabetically for easy reference

Scientific and Technical Books and Serials in Print, 1984 **Breed Your Own Vegetable Varieties** Carol Deppe, 2000-11-01 Book title is the definitive guide to plant breeding and seed saving for the serious home gardener and the small scale farmer or commercial grower Discover how to breed for a wide range of different traits flavor size shape or color cold or heat tolerance pest and disease resistance and regional adaptation how to save seed and maintain varieties how to conduct your own variety trials and other farm or garden based research how to breed for performance under organic or sustainable growing methods Back cover

Guide to Sources for Agricultural and Biological Research J. Richard Blanchard, Lois Farrell, 2023-07-28 **Distant Hybridization of Crop Plants** G. Kalloo, J.B. Chowdhury, 2012-12-06 Wild taxa are invaluable sources of resistance to diseases insects pests nematodes temperature extremes salinity and alkalinity stresses and also of nutritional quality adaptation genetic diversity and new species Utilization of wild relatives of a crop depends largely upon its crossability relations with cultivated varieties Sev eral wild species are not crossable with the commercial cultivars due to various isolation barriers Furthermore in a few cases hybridiza tion is possible only in one direction and reciprocal crosses are not successful thus depriving the utilization of desired cytoplasm of many species

However techniques have been developed to overcome many barriers and hybrid plants are produced. New crop species have been developed by overcoming the F₁ sterility and producing amphidiploids and such crops are commercially being grown in the field. The segregation pattern of F₁ hybrids produced by distant hybridization in segregating generations are different from the intervarietal hybrids. In former cases generally unidirectional segregation takes place in early generations and accordingly selection procedures are adopted. In most of the cases backcross or modified backcross methods have been followed to utilize wild species and thus numerous types of resistance and other economical attributes have been transferred in the recurrent parents. Protoplast fusion has been amply demonstrated in a number of cases where sexual hybridization was not possible and as a result hybrids have been produced.

Progress in Botany / Fortschritte der Botanik Heinz Ellenberg, Karl Esser, Klaus Kubitzki, Eberhard Schnepf, Hubert Ziegler, 2012-12-06

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Table of Contents Pollination Mechanisms Reproduction And Plant Breeding Monographs On Theoretical And Applied Genetics Volume

1. Understanding the eBook Pollination Mechanisms Reproduction And Plant Breeding Monographs On Theoretical And Applied Genetics Volume
 - The Rise of Digital Reading Pollination Mechanisms Reproduction And Plant Breeding Monographs On Theoretical And Applied Genetics Volume
 - Advantages of eBooks Over Traditional Books
2. Identifying Pollination Mechanisms Reproduction And Plant Breeding Monographs On Theoretical And Applied Genetics Volume
 - 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 Pollination Mechanisms Reproduction And Plant Breeding Monographs On Theoretical And Applied Genetics Volume
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pollination Mechanisms Reproduction And Plant Breeding Monographs On Theoretical And Applied Genetics Volume

- Personalized Recommendations
 - Pollination Mechanisms Reproduction And Plant Breeding Monographs On Theoretical And Applied Genetics Volume User Reviews and Ratings
 - Pollination Mechanisms Reproduction And Plant Breeding Monographs On Theoretical And Applied Genetics Volume and Bestseller Lists
5. Accessing Pollination Mechanisms Reproduction And Plant Breeding Monographs On Theoretical And Applied Genetics Volume Free and Paid eBooks
- Pollination Mechanisms Reproduction And Plant Breeding Monographs On Theoretical And Applied Genetics Volume Public Domain eBooks
 - Pollination Mechanisms Reproduction And Plant Breeding Monographs On Theoretical And Applied Genetics Volume eBook Subscription Services
 - Pollination Mechanisms Reproduction And Plant Breeding Monographs On Theoretical And Applied Genetics Volume Budget-Friendly Options
6. Navigating Pollination Mechanisms Reproduction And Plant Breeding Monographs On Theoretical And Applied Genetics Volume eBook Formats
- ePub, PDF, MOBI, and More
 - Pollination Mechanisms Reproduction And Plant Breeding Monographs On Theoretical And Applied Genetics Volume Compatibility with Devices
 - Pollination Mechanisms Reproduction And Plant Breeding Monographs On Theoretical And Applied Genetics Volume Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Pollination Mechanisms Reproduction And Plant Breeding Monographs On Theoretical And Applied Genetics Volume
 - Highlighting and Note-Taking Pollination Mechanisms Reproduction And Plant Breeding Monographs On Theoretical And Applied Genetics Volume
 - Interactive Elements Pollination Mechanisms Reproduction And Plant Breeding Monographs On Theoretical And Applied Genetics Volume
8. Staying Engaged with Pollination Mechanisms Reproduction And Plant Breeding Monographs On Theoretical And Applied Genetics Volume
- Joining Online Reading Communities

- Participating in Virtual Book Clubs
- Following Authors and Publishers Pollination Mechanisms Reproduction And Plant Breeding Monographs On Theoretical And Applied Genetics Volume
- 9. Balancing eBooks and Physical Books Pollination Mechanisms Reproduction And Plant Breeding Monographs On Theoretical And Applied Genetics Volume
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pollination Mechanisms Reproduction And Plant Breeding Monographs On Theoretical And Applied Genetics Volume
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Pollination Mechanisms Reproduction And Plant Breeding Monographs On Theoretical And Applied Genetics Volume
 - Setting Reading Goals Pollination Mechanisms Reproduction And Plant Breeding Monographs On Theoretical And Applied Genetics Volume
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Pollination Mechanisms Reproduction And Plant Breeding Monographs On Theoretical And Applied Genetics Volume
 - Fact-Checking eBook Content of Pollination Mechanisms Reproduction And Plant Breeding Monographs On Theoretical And Applied Genetics Volume
 - 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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