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# Genetic Control of Self-Incompatibility and Reproductive Development in Flowering Plants

Edited by  
Elizabeth G. Williams,  
Adrienne E. Clarke  
and R. Bruce Knox



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# Genetic Control Of Self Incompatibility And Reproductive Development In Flowering Plants

**K R Shivanna**



## **Genetic Control Of Self Incompatibility And Reproductive Development In Flowering Plants:**

Genetic control of self-incompatibility and reproductive development in flowering plants Elizabeth G. Williams,A.E. Clarke,R.B. Knox,1994-08-31 Plant reproductive biology has undergone a revolution during the past five years with the cloning sequencing and localization of the genes important in reproduction These advantages in plant molecular biology have led to exciting applications in plant biotechnology including the genetic engineering of male sterility and other reproductive processes This book presents an interesting and contemporary account of these new developments from the scientists in whose laboratories they have been made The chapters focus on two areas the molecular biology of self incompatibility which is the system of self recognition controlled by the S gene and related genes and the cellular and molecular biology of pollen development and genetic dissection of male sterility Some chapters feature Arabidopsis with its unique genetic system Reproduction is vital for seed production in crop plants and this book presents new approaches to manipulate plant breeding systems for the 21st century

**Genetic control of self-incompatibility and reproductive development in flowering plants** Elizabeth G. Williams,A.E. Clarke,R.B. Knox,2013-03-09 Plant reproductive biology has undergone a revolution during the past five years with the cloning sequencing and localization of the genes important in reproduction These advantages in plant molecular biology have led to exciting applications in plant biotechnology including the genetic engineering of male sterility and other reproductive processes This book presents an interesting and contemporary account of these new developments from the scientists in whose laboratories they have been made The chapters focus on two areas the molecular biology of self incompatibility which is the system of self recognition controlled by the S gene and related genes and the cellular and molecular biology of pollen development and genetic dissection of male sterility Some chapters feature Arabidopsis with its unique genetic system Reproduction is vital for seed production in crop plants and this book presents new approaches to manipulate plant breeding systems for the 21st century

*Self-Incompatibility in Flowering Plants* Veronica E. Franklin-Tong,2008-07-30 Great progress has been made in our understanding of pollen pistil interactions and self incompatibility SI in flowering plants in the last few decades This book covers a broad spectrum of research into SI with accounts by internationally renowned scientists It comprises two sections Evolution and Population Genetics of SI Molecular and Cell Biology of SI Systems The reader will gain an insight into the diversity and complexity of these polymorphic cell cell recognition and rejection systems Heteromorphic and homomorphic SI systems and our current understanding of the evolution and phylogeny of these systems based on the most recent molecular sequence data are covered Further the book presents major advances in our knowledge of the pistil and pollen S determinants and other unlinked components involved in SI as well as the apparently diverse cellular regulatory mechanisms utilised to ensure inhibition of self pollen

Biology and Breeding of Crucifers Surinder Kumar Gupta,2016-04-19 Considerable interest has developed in recent years in crucifers and particularly in their wild relatives as they contain genetic material that may be utilized for further evolution of superior crop

varieties through introgression and distant hybridization Until now there has been no single volume that focuses exclusively on the biology and breeding

**Floral Biology** David G. Lloyd, Spencer C.H. Barrett, 2012-12-06 Studies in floral biology are largely concerned with how flowers function to promote pollination and mating The role of pollination in governing mating patterns in plant populations inextricably links the evolution of pollination and mating systems Despite the close functional link between pollination and mating research conducted for most of this century on these two fundamental aspects of plant reproduction has taken quite separate courses This has resulted in surprisingly little cross fertilization between the fields of pollination biology on the one hand and plant mating system studies on the other The separation of the two areas has largely resulted from the different backgrounds and approaches adopted by workers in these fields Most pollination studies have been ecological in nature with a strong emphasis on field research and until recently few workers considered how the mechanics of pollen dispersal might influence mating patterns and individual plant fitness In contrast work on plant mating patterns has often been conducted in an ecological vacuum largely devoid of information on the environmental and demographic context in which mating occurs Mating system research has been dominated by population genetic and theoretical perspectives with surprisingly little consideration given to the proximate ecological factors responsible for causing a particular pattern of mating to occur

**International Review of Cytology**, 1999-09-01 International Review of Cytology presents current advances and comprehensive reviews in cell biology both plant and animal Articles address structure and control of gene expression nucleocytoplasmic interactions control of cell development and differentiation and cell transformation and growth Authored by some of the foremost scientists in the field each volume provides up to date information and directions for future research

**Unusual Autonomic Ganglia Embryonic Genome Activation in Mammal Embryos Temporal and Spatial Coordination Plastid Components Sexual Incompatibility in Plants and Fungi**

**Pollen Biology and Biotechnology** K R Shivanna, 2019-04-24 The author offers an overview of pollen biology and biotechnology for students and researchers in areas such as reproductive biology biotechnology aeropalynology plant breeding horticulture and forestry Citing more than 1 500 references to pollen research the text covers topics including advances in understanding pollen tube growth the use

**Evolutionary Ecology of Plant Reproductive Strategies** Thomas Johannes de Jong, Petrus Gerardus Leonardus Klinkhamer, 2005-10-13 This book places the wealth of data that have been collected on plants into the unifying framework of game theory

**Evolutionary Genetics** R. S. Singh, Costas B. Krimbas, 2000-03-28 This book brings out the central role of evolutionary genetics in all aspects of its connection to evolutionary biology

**Plant Breeding Systems** A. J. Richards, 1997 This illustrated text attempts to provide a unified and comprehensive coverage of plant breeding systems a subject vital to plant geneticists plant breeders taxonomists evolutionists and conservationists

**Plant Breeding Reviews, Volume 45** Irwin Goldman, 2021-10-21 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      **Genetic Improvement of Solanaceous Crops** M K Razdan,A. K. Mattoo,2006-01-12 Potato is the most significant non cereal crop Much attention has been paid to this commercially important crop The aim of this volume is to capture the recent advances made in improving potatoes using traditional breeding methods as well as genetic engineering technology The book provides a critical appraisal of the state of the art finding on this crop      **Arabidopsis** John Bowman,2012-12-06 The recent application of molecular genetics to problems of developmental biology has provided us with greater insight into the molecular mechanisms by which cells determine their developmental fate This is particularly evident in the recent progress in understanding of developmental processes in model animal systems such as Drosophila melanogaster and Caenorhabditis elegans De spite the use of plants in some of the earliest genetics experiments the elucidation of the molecular bases of plant development has lagged behind that of animal development However the emergence of model systems such as Arabidopsis thaliana amenable to developmental genetics has led to the beginning of the unraveling of the mysteries behind plant morphogenesis This atlas of the morphology and development of the weed Arabidopsis is intended to be a reference book both for scientists already familiar with plant anatomy and for those utilizing Arabidopsis who have come from other fields The primary concentration is on descriptions rather than interpretations as interpretations evolve and change relatively rapidly whereas the evolution of plant form takes place on a much longer time scale Molecular genetics and the use of mutants to probe wild type gene function rely on the wild type being well characterized With this in mind an attempt was made to present detailed descriptions of wild type structure and development to provide a foundation for comparison with the selected mutants in the atlas More importantly it is hoped that the atlas will serve as a valuable resource in the characterization of new mutants      Incompatibility and Incongruity in Wild and Cultivated Plants Dreux de Nettancourt,2013-03-14 Advances in plant cell molecular biology have considerably increased our understanding of pollen pistil barriers particularly those operated by incompatibility mechanisms and at the same time demonstrated the complexity and diversity of rejection systems once considered to be relatively simple This book reviews the impressive knowledge acquired in the last century on the biology particularly the inheritance and population genetics of self incompatibility and presents the new approaches to the study of the structure function and evolution of incompatibility alleles and the analysis of cell cell recognition and pollen rejection The different methods now available for transforming the breeding behaviour of higher plants are also discussed      Plant Development and Evolution ,2019-01-04 Plant Development and Evolution the latest release in the Current Topics in Developmental Biology series highlights new advances in the field with this new volume presenting interesting chapters on the Evolution of the plant body plan Lateral root development and its role in evolutionary adaptation the Development of the vascular system the Development of the shoot apical meristem and

phyllotaxis the Evolution of leaf diversity the Evolution of regulatory networks in land plants The role of programmed cell death in plant development the Development and evolution of inflorescence architecture the Molecular regulation of flower development the Pre meiotic another development and much more Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Current Topics in Developmental Biology series Updated release includes the latest information on Plant Development and Evolution **The Changing Scenario in Plant Sciences** ,2000 Mutation Breeding A. M. van Harten,1998-06-25 An essential and comprehensive summary for all plant breeders Genetics Manual G. P. Redei,1998 Redei has created an outstanding compendium of genetics Arranged as a dictionary the book is almost an encyclopedic collection of terms concepts The author has managed to define terms with appropriate mixtures of depth detail for the researcher along with clarity useful for the nonexpert Choice 1998 Boron in Plant and Animal Nutrition Heiner E. Goldbach,Benjavan Rerkasem,Monika A. Wimmer,Patrick H. Brown,Michel Thellier,R.W. Bell,2012-12-06 The Boron 97 meeting was a great success in summarising all recent developments in basic and applied research on boron s function especially in plants New techniques have since been developed and new insight has been gained into the role of boron in plant and animal metabolism Nevertheless there were still lots of open questions The aim of the present workshop held in Bonn as a satellite meeting to the International Plant Nutrition Colloquium was thus to gather all actual information which has been gained since the Boron 97 meeting and to compile knowledge both from animal and plant sciences Furthermore applied aspects had to be addressed too as there is an increasing awareness of boron deficiencies even in crops such as wheat which have formerly not been considered as responsive to boron application Genetic differences in boron demand and efficiency within one species are a further important topic which has gained importance since the 1997 meeting More in depth knowledge on the mechanisms of boron efficiency are required as an increased efficiency will be one major possibility to maintain and improve crop yields for resource poor farmers Nevertheless it has also clearly been shown that an adequate supply of boron is needed to obtain high yields of crops with a high quality and that a sustainable agriculture has to provide an adequate boron supply to compensate for inevitable losses through leaching especially in the humid tropics and temperate regions and for the boron removal by the crop UV-B Radiation and Crop Growth Sunita Kataria,Vijay Pratap Singh,2023-01-01 This book is an inclusive collection of topics on research on UVB for its impact on plants with a focus on its use as an emerging technology for crop growth and protection This book covers role of UV B on biological systems and its transformation from generic stressor to specific regulator It also explores the past research in UVB studies and the changing mind sets regarding UV B in recent time with respect to the plant growth It also explores the discovery of specific UV B photoreceptor UVR8 and UVR8 mediated plants responses This book is of interest to teachers researchers agriculture scientists and plant physiologists Also the book serves as additional reading material for undergraduate and graduate students of agriculture forestry ecology soil science and

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