



# Sexual Plant Reproduction

**Francisco Pugnaire, Fernando  
Valladares**



## **Sexual Plant Reproduction:**

**Sexual Plant Reproduction** Mauro Cresti, Antonio Tiezzi, 2012-12-06 In recent years there has been a growing awareness of the importance of reproductive biology to crop production and there has been a tremendous increase in research on reproductive structures of higher plants Presented here is a wide information of different aspects of micro and macrosporogenesis pollen stigma interaction and recognition pollen tube growth cytoskeleton in vitro and in vivo gamete fusion and incompatibility The most advanced techniques employed in studies on reproductive biology of higher plants are described in detail *Genetics and genomics of plant reproduction for crop breeding, volume II* Gianni Barcaccia, Fulvio Pupilli, Sara Zenoni, Emidio Albertini, Andrea Mazzucato, Silvia Vieira Coimbra, Luciana Baldoni, Soraya Mousavi, 2023-03-20

**The Evolution of Sex in Plants** John Merle Coulter, 1914 **Sexual Plant Reproduction Research** Michael Hesse, Oscar Vicente, Erwin Heberle-Bors, 1995 **Genetics and Genomics of Plant Reproduction for Crop Breeding** Gianni Barcaccia, Luciana Baldoni, Marta Adelina Mendes, Emidio Albertini, Fulvio Pupilli, Andrea Mazzucato, Sara Zenoni, Silvia Vieira Coimbra, Antonio Granell, Dabing Zhang, 2020-07-28 **Major Evolutionary Transitions in Flowering Plant Reproduction** Spencer C. H. Barrett, 2008-11-28 The first volume to address the study of evolutionary transitions in plants Major Evolutionary Transitions in Flowering Plant Reproduction brings together compelling work from the three areas of significant innovation in plant biology evolution and adaptation in flowers and pollination mating patterns and gender strategies and asexual reproduction and polyploidy Spencer C H Barrett assembles here a distinguished group of authors who address evolutionary transitions using comparative and phylogenetic approaches the tools of genomics population genetics and theoretical modeling and through studies in development and field experiments in ecology With special focus on evolutionary transitions and shifts in reproductive characters key elements of biological diversification and research in evolutionary biology Major Evolutionary Transitions in Flowering Plant Reproduction is the most up to date treatment of a fast moving area of evolutionary biology and ecology *Plant Propagation Concepts and Laboratory Exercises* Caula A. Beyl, Robert N. Trigiano, 2008-06-09 A complete teaching guide with hands on laboratories this book is edited by two of the leading experts in the field The text develops a working knowledge of the principles of plant propagation as they apply in temperate and tropical environments In addition to presenting the essential fundamentals this carefully conceived w

Special Issue, 2011 *The Handbook of Plant Functional Genomics* Guenter Kahl, Khalid Meksem, 2008-09-08 In this incisive concise overview of this booming field the editors two of the leading figures in the field with a proven track record combine their expertise to provide an invaluable reference on the topic Following a treatment of transcriptome analysis the book goes on to discuss replacement and mutation analysis gene silencing and computational analysis The whole is rounded off with a look at emerging technologies Each chapter is accompanied by a concise overview helping readers to quickly identify topics of interest while important carefully selected words and concepts are explained in a handy glossary Equally

accessible to both experienced scientists and newcomers to the field

### **Molecular and Cellular Plant Reproduction**

Dazhong Zhao, Kang Chong, Ravishankar Palanivelu, 2017-07-21 Plant reproduction is essential not only for producing offspring but also for increasing crop quality and yield. Moreover, plant reproduction entails complex growth and developmental processes which provide a variety of opportunities for elucidating fundamental principles in biology. The combinational employment of molecular genetic approaches and emerging technologies such as fluorescence based imaging techniques and next generation sequencing has led to important progresses in plant reproduction using model plants, crops and trees. This e-book compiles 31 articles including 1 hypothesis and theory, 4 perspectives, 12 reviews and 14 original research papers. We hope that this E-book will draw attention of all plant biologists to exciting advances in the field of plant reproduction and help solve remaining challenging questions in the future. We wish to express our appreciation to all the authors, reviewers and the Frontiers editorial office for their excellent contributions that made the publication of this e-book possible.

Issues in Life Sciences: Botany and Plant Biology Research: 2011 Edition, 2012-01-09 Issues in Life Sciences Botany and Plant Biology Research 2011 Edition is a ScholarlyEditions eBook that delivers timely, authoritative and comprehensive information about Life Sciences Botany and Plant Biology Research. The editors have built Issues in Life Sciences Botany and Plant Biology Research 2011 Edition on the vast information databases of ScholarlyNews. You can expect the information about Life Sciences Botany and Plant Biology Research in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed and relevant. The content of Issues in Life Sciences Botany and Plant Biology Research 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions and companies. All of the content is from peer-reviewed sources and all of it is written, assembled and edited by the editors at ScholarlyEditions and available exclusively from us. You now have a source you can cite with authority, confidence and credibility. More information is available at <http://www.ScholarlyEditions.com>.

**Molecular Basis of Apomixis in Plants** Diego Hojsgaard, 2021-09-08 Apomixis is the consequence of a concerted mechanism that harnesses the sexual machinery and coordinates developmental steps in the ovule to produce an asexual clonal seed. Altered sexual developments involve widely characterized functional and anatomical changes in meiosis, gametogenesis and embryo and endosperm formation. The ovules of apomictic plants skip meiosis and form unreduced female gametophytes whose egg cells develop into a parthenogenetic embryo and the central cells may or may not fuse to a sperm to develop the seed endosperm. Thus, functional apomixis involves at least three components: apomeiosis, parthenogenesis and endosperm development modified from sexual reproduction that must be coordinated at the molecular level to progress through the developmental steps and form a clonal seed. Despite recent progress uncovering specific genes related to apomixis-like phenotypes and the formation of clonal seeds, the molecular basis and regulatory network of apomixis is still unknown. This is a central problem underlying the current limitations of apomixis breeding. This book collates twelve

publications addressing different topics around the molecular basis of apomixis illustrating recent discoveries and advances toward understanding the genetic regulation of the trait discussing the possible origins of apomixis and the remaining challenges for its commercial deployment in plants      **Thiol-based redox homeostasis and signalling** Francisco J. Cejudo, Andreas J. Meyer, Jean-Philippe Reichheld, Nicolas Rouhier, Jose A. Traverso, 2014-09-24 In contrast to the situation in heterotrophic organisms plant genomes code for a significantly larger number of oxidoreductases such as thioredoxins TRXs and glutaredoxins GRXs These proteins provide a biochemical mechanism that allows the rapid and reversible activation or deactivation of protein functions in response to changing environmental conditions as oxidative conditions caused by excessive photosynthesis Indeed owing to the fact that cysteines are sensitive to oxidation TRXs and GRXs play an essential role in controlling the redox state of protein thiol groups These redox dependent post translational modifications have proven to be critical for many cellular functions constituting regulatory signalling or protective mechanisms The articles contained in this Research Topic provide timely overviews and new insights into thiol dependent redox regulation mechanisms with a focus on TRX and GRX based reduction systems in plants The different contexts discussed take into account physiological developmental and environmental conditions      **Botany** Mauseth, 2016-07-06 The Sixth Edition of Botany An Introduction to Plant Biology provides a modern and comprehensive overview of the fundamentals of botany while retaining the important focus of natural selection analysis of botanical phenomena and diversity      Botany James D. Mauseth, 2016-07-06 The Sixth Edition of Botany An Introduction to Plant Biology provides a modern and comprehensive overview of the fundamentals of botany while retaining the important focus of natural selection analysis of botanical phenomena and diversity      *Plant Biotechnology and Molecular Markers* S. Srivastava, A. Narula, 2006-01-16 The genesis of the volume Plant Biotechnology and Molecular Markers has been the occasion of the retirement of Professor Sant Saran Bhojwani from the Department of Botany University of Delhi For Professor Bhojwani retirement only means relinquishing the chair as being a researcher and a teacher which has always been a way of life to him Professor Bhojwani has been an ardent practitioner of modern plant biology and areas like Plant Biotechnology and Molecular Breeding have been close to his heart The book contains original as well as review articles contributed by his admirers and associates who are experts in their area of research While planning this contributory book our endeavour has been to incorporate articles that cover the entire gamut of Plant Biotechnology and also applications of Molecular Markers Besides articles on in vitro fertilization and micropropagation there are articles on forest tree improvement through genetic engineering Considering the importance of conservation of our precious natural wealth one article deals with cryopreservation of plant material Chapter on molecular marker considers DNA indexing as markers of clonal fidelity of in vitro regenerated plants and prevention against bio piracy A couple of write ups also cover stage specific gene markers DNA polymorphism and genetic engineering including raising of stress tolerant plants to sustain productivity and help in reclamation of degraded land      Embryology of Flowering Plants: Terminology and Concepts, Vol. 3 T B

Batygina,2019-04-23 Plant embryology dealing with the regularities of initiation and the first stages of development of an organism is now flourishing because of the overall progress being made in natural sciences Such discoveries of the 20th century as production of plants from a single somatic cell experimental haploidy and parasexual hybridization were of general biological significance The combined efforts of embryologists geneticists and molecular biologists yielded the discovery of specific genes that control meiosis egg cell development and early stages of embryogenesis The tendency to synthesize data of embryology and genetics has become increasingly noticeable It is connected with the fact that the majority of problems connected with morphogenesis such as differentiation specialization the evaluation of features and the definition of the notions gene and feature and genotype and phenotype concern embryology and genetics embryogenetics in one way or another Evolutionary embryology has given rise to a new approach to the study of problems of adaptation in plants In connection with the problem of preserving biological diversity under conditions of ecological stress special attention is paid to ecological embryology revealing the critical periods in early ontogenesis and plasticity and tolerance of reproductive systems at the level of species and population The study of variability of morphogenesis and phenotype in population life cycle variations and the diversity of reproductive systems is the most important point in the population embryology of plants

Functional Plant Ecology Francisco Pugnaire, Fernando Valladares, 2007-06-20 Following in the footsteps of the successful first edition Functional Plant Ecology Second Edition remains the most authoritative resource in this multidisciplinary field Extensively revised and updated this book investigates plant structure and behavior across the ecological spectrum It features the ecology and evolution of plant crowns and a **Reproductive Biology of Angiosperms** Yash Mangla, Priyanka Khanduri, Charu Khosla Gupta, 2023-01-05 Reproductive Biology of Angiosperms Concepts and Laboratory Methods will cater to the needs of undergraduate and graduate students pursuing core and elective courses in life sciences botany and plant sciences The book is designed according to the syllabi followed in major Indian universities It provides the latest and detailed description of structures and processes involved in reproduction in higher plants The inclusion of colour photographs and illustrations will be an effective visual aid to help readers Interesting and significant findings of the latest research taking place in the field of reproductive biology are also provided in boxes At the end of each chapter the methodology of hands on exercises is presented for the implementation and practice of theoretical concepts

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