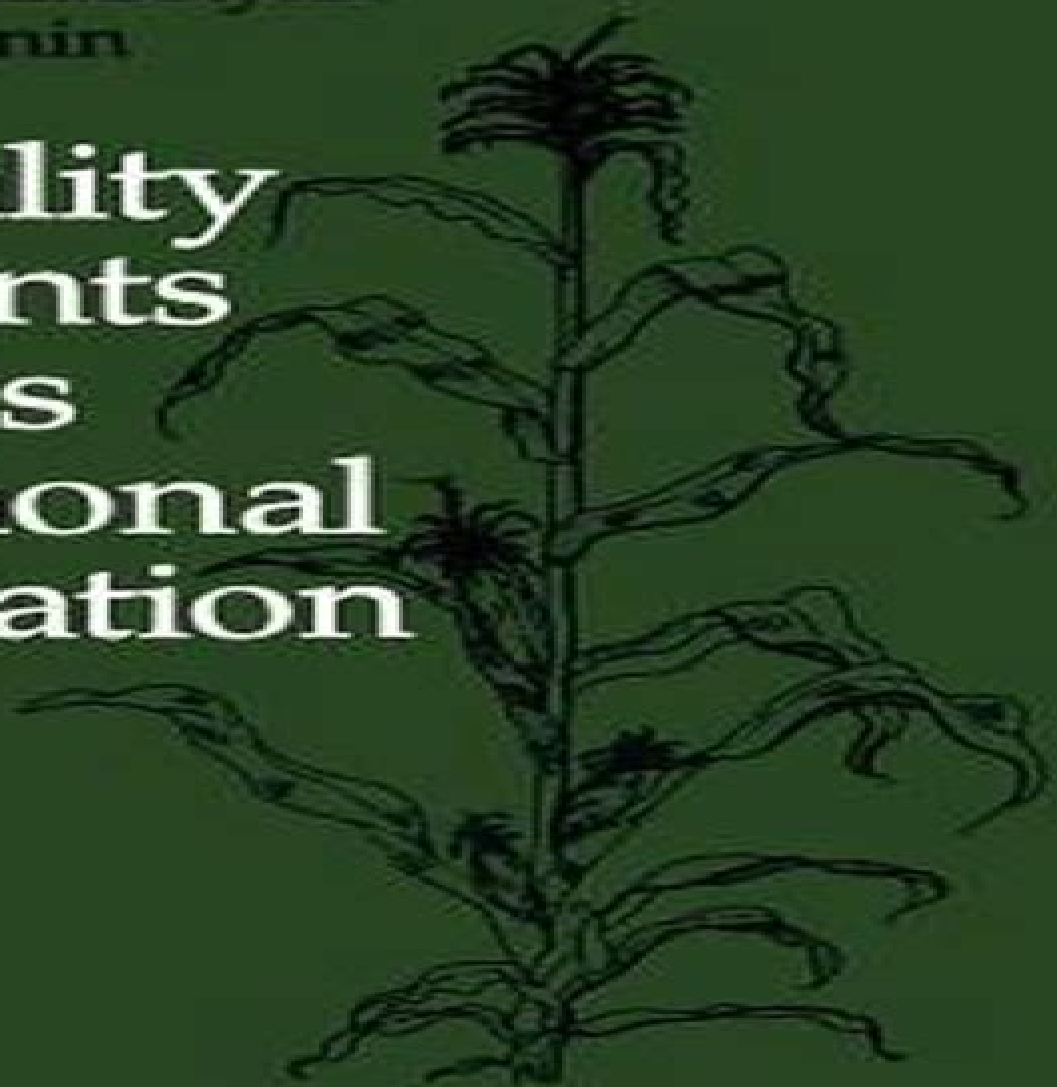


M. Kh. Chailakhyan
V. N. Khrianin

Sexuality in Plants and Its Hormonal Regulation



Springer-Verlag

Sexuality In Plants And Its Hormonal Regulation

Abraham H. Halevy



Sexuality In Plants And Its Hormonal Regulation:

Sexuality in Plants and Its Hormonal Regulation M. Kh. Chailakhyan, V.N. Khrianin, 2012-12-06 Here is the first book to treat the control of sexuality in plants The authors provide a thorough review of the literature and discuss many new findings from their laboratory They include a review of the evolution and genetics of sexuality including new data on the effect of primary environmental factors on sex expression and the influence of phytohormones on the expression of sexuality as a function of age The work discussed here has significant implications for plant breeding Agronomists horticulturists and plant physiologists will find practical information on procedures to use in the field or the green house as well as a thorough introduction to the principles of flowering and fruiting *Plant Hormones* Gerald Litwack, 2005-10-13 Volume 72 is wholly dedicated to the topic of plant hormones Although *Vitamins and Hormones* is normally dedicated to mammalian hormone action this volume is unique to plants and their actions through receptors The genetic aspects and the receptorology are reminiscent of the mammalian systems The well known hormones are reviewed including cytokinins abscisic acid gibberellin and auxin In addition there are reviews on nitric oxide brassinosteroids jasmonate ethylene and pheromones Other topics included are genes that are regulated by abscisic acid and gibberellin functional differentiation and transition of peroxisomes plant antioxidants gravitropic bending and the actions of plant hormones on glutathione transferase Includes color illustrations Available on ScienceDirect Longest running series published by Academic Press Contributions by leading international authorities

Gender and Sexual Dimorphism in Flowering Plants Monica A. Geber, Todd E. Dawson, Lynda F. Delph, 2012-12-06 While the majority of flowering plant species are hermaphroditic gender dimorphism or the occurrence of two sexual morphs has nevertheless evolved on repeated occasions Gender dimorphism is found in nearly half of all angiosperm families and in approximately 10% of flowering plant species Where plants are dimorphic in gender they can also be dimorphic in secondary sex characters We refer to dimorphism of the latter kind as sexual dimorphism in keeping with the term's usage by most zoologists This book is about the evolution of both forms of dimorphism hence the book's lengthy title Gender dimorphism in plants has been an active topic of research from theoretical and empirical perspectives and has been the focus of several recent reviews and book chapters By contrast sexual dimorphism in plants is of the much less widely appreciated Indeed the last comprehensive review subject dates back to Lloyd and Webb's 1977 paper on Secondary Sex Characters We first spoke of editing a book on sexual characters in Plants In addition when dimorphism in plants some people doubted that there was enough material to justify the effort We hope that this book not only provides an update to Lloyd and Webb's seminal work but also dispels doubts about the widespread nature of sexual dimorphism in plants We decided to combine reviews of both gender and sexual dimorphism in a single book because each form of dimorphism can provide the evolutionary impetus for the other

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

Bartonia ,1988 **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

Bibliography of Agriculture with Subject Index ,1985 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

Sex Determination in Plants CC Ainsworth, 2004-08-02 Indispensable for all plant biologists this is a fascinating and thorough examination of those factors which affect the sex determination of plant species describing all of the main classes of plant with unisexual flowers hermaphrodite monoecious and

Handbook of Cucurbits Mohammad Pessarakli, 2016-02-22 The Handbook of Cucurbits Growth Cultural Practices and Physiology contains information on cultural practices nutrition and physiological processes of cucurbits under both normal and stressful conditions It presents the history and importance of cucurbit crop production as well as exhaustive information on growth responses of cucurbits to var

Phytohormones in Plant Biotechnology and Agriculture Ivana Machácková, Georgy A. Romanov, 2013-11-11 Phytohormone research is a crucially important area of plant sciences Phytohormones are one of the key systems integrating metabolic and developmental events in the whole plant and the response of plants to external factors Thus they influence the yield and quality of crops During the last decade we have slowly begun to understand the molecular mechanisms underlying phytohormone action largely as a result of the rapid developments that have been made internationally in the field of plant molecular genetics Putative receptor proteins for ethylene 1993 95 brassinosteroids 1997 and cytokinins 2001 have been identified and the genes that encode them cloned Primary response genes and elements of hormonal signal transduction have also been identified for most known phytohormones There is now little doubt that phytohormones like their animal counterparts function as signal molecules and create a signalling network in the whole plant organism The in vivo activity of hormones depends among other things on their rate of biosynthesis and metabolism and on their transport into and out of target cells Consequently genes and enzymes involved in these processes are of particular interest In recent years a number of genes encoding enzymes for the synthesis modification and degradation of different phytohormones have been cloned and identified as have genes encoding proteins involved in phytohormone transport and its regulation Some classes of phytohormone have been shown to participate in stress reactions and can increase the resistance of plants to unfavorable environmental factors

High-Tech and Micropropagation V Y.P.S. Bajaj, 2013-03-09 This volume fifth in the series High Tech and Micropropagation contains 24 chapters arranged in the following three sections I Vegetables and Fruits garlic Amaranthus Brassica oleracea pepper watermelon cassava banana Myrtus communis passionfruit Polymnia sonchifolia pepino and spinach II Grasses bamboos Caustis dioica Dendrocalamus Miscanthus x giganteus sugarcane III Trees Aegle marmelos Eucalyptus Fraxinus excelsior Juglans cinerea Pinus virginiana Prosopis and Ulmus This book is of use to research workers advanced students and teachers in the fields of horticulture forestry botany and plant biotechnology in general and also to individuals interested in industrial micropropagation

Glimpses in Botany K G. Mukerji, B. P. Chamola, 2000

Plant Reproductive Ecology : Patterns and Strategies Jon and Lesley Lovett-Doust Professor of Biology the University of Windsor, 1988-07-07 This collection of reviews by leading investigators examines plant reproduction and sexuality within a

framework of evolutionary ecology providing an up to date account of the field The contributors discuss conceptual issues showing the importance of sex allocation sexual selection and inclusive fitness and the dimensions of paternity and maternity in plants The evolution maintenance and loss of self incompatibility in plants the nature of sex choice in plants and sex dimorphism are all explored in detail Specific forms of biotic interactions shaping the evolution of plant reproductive strategy are discussed and a taxonomically based review of the reproductive ecology of non angiosperm plant groups such as bryophytes ferns and algae is presented Together these studies focus on the complexities of plant life cycles and the distinctive reproductive biologies of these organisms while showing the similarities between nonflowering plants and the more thoroughly documented flowering species

Chromosomal and Genomic Structures and Functions Tariq Ahmad Bhat,Jameel M. Al-Khayri,2025-08-29 This new two volume set presents the classical and advanced aspects of chromosomal and genomic structures and functions with special reference to chromosomes and cell division providing a comprehensive resource for beginners experts and those venturing into the fascinating science of chromosomes and cell division Volume 1 presents in depth studies of the relationships and functional mechanisms of chromosomes genes and biological mechanisms to the benefit of organisms at large and in humans in particular Understanding these biological concepts of chromosomal and genomic structures and functions has had a profound effect on society leading to better health through improved inheritance patterns accurate disease diagnosis a better understanding of human gene variations improved drug and pharmaceutical production more sensitive and specific crime scene forensics and increased production of different varieties of improved agronomic traits which have revolutionized crop science medical sciences and advanced diagnostic developments Volume 2 Genetic Material Structure and Functions explores the future of genetic engineering and discusses epigenetics the role of the nucleus inheritance and its biological mechanisms cytoplasmic inheritance DNA as a genetic material nuclear membranes gene expression in prokaryotes gene expression in eukaryotes and genetics and evolution

Microbial Autoregulators Aleksandr Stepanovich Khokhlov,1991 A monograph devoted to the natural distribution the isolation and the chemical and biological characteristics of autoregulators substances having autoregulating functions in prokaryotic and eukaryotic microorganisms In particular the author focuses on the chemical properties of autoregulators including structural investigations synthetic studies and elucidation of structure activity relationships Translated from the Russian edition of 1988 Nauka Moscow Annotation copyrighted by Book News Inc Portland OR

Écoscience ,1994 **Biology and Utilization of the Cucurbitaceae** David M. Bates,Richard W. Robinson,2019-05-15 The cucurbits Cucurbitaceae or gourd family which include squash pumpkin melon cucumber and watermelon have long been of economic significance As sources of vegetables fruit and seeds rich in oils and protein they have the potential of making an even larger contribution toward meeting the needs of humankind This book consisting of 37 papers by 50 cucurbit specialists emphasizes the practical importance of cucurbit investigation and also provides a broad overview of the family

Plant Aging Roberto Rodríguez,R.Sanchez

Tamés,D.J. Durzan,2012-12-06 For many the terms aging maturation and senescence are synonymous and used interchangeably but they should not be Whereas senescence represents an endogenously controlled degenerative programme leading to plant or organ death genetic aging encompasses a wide array of passive degenerative genetic processes driven primarily by exogenous factors Leopold 1975 Aging is therefore considered a consequence of genetic lesions that accumulate over time but by themselves do not necessarily cause death These lesions are probably made more severe by the increase in size and complexity in trees and their attendant physiology Thus while the withering of flower petals following pollination can be considered senescence the loss of viability of stored seeds more clearly represents aging Norden 1988 The very recent book *Senescence and Aging in Plants* does not discuss trees the most dominant group of plants on the earth Yet both angiospermic and gymnospermic trees also undergo the above phenomena but less is known about them Do woody plants senesce or do they just age What is phase change Is this synonymous with maturation While it is now becoming recognized that there is no programmed senescence in trees senescence of their parts even in gymnosperms e g needles of temperate conifers last an average of 3 5 years is common but aging is a readily acknowledged phenomenon In theory at least in the absence of any programmed senescence trees should live forever but in practice they do not

Developmental Plasticity and Evolution Mary Jane West-Eberhard,2003-03-13 The first comprehensive synthesis on development and evolution it applies to all aspects of development at all levels of organization and in all organisms taking advantage of modern findings on behavior genetics endocrinology molecular biology evolutionary theory and phylogenetics to show the connections between developmental mechanisms and evolutionary change This book solves key problems that have impeded a definitive synthesis in the past It uses new concepts and specific examples to show how to relate environmentally sensitive development to the genetic theory of adaptive evolution and to explain major patterns of change In this book development includes not only embryology and the ontogeny of morphology sometimes portrayed inadequately as governed by regulatory genes but also behavioral development and physiological adaptation where plasticity is mediated by genetically complex mechanisms like hormones and learning The book shows how the universal qualities of phenotypes modular organization and plasticity facilitate both integration and change Here you will learn why it is wrong to describe organisms as genetically programmed why environmental induction is likely to be more important in evolution than random mutation and why it is crucial to consider both selection and developmental mechanism in explanations of adaptive evolution This book satisfies the need for a truly general book on development plasticity and evolution that applies to living organisms in all of their life stages and environments Using an immense compendium of examples on many kinds of organisms from viruses and bacteria to higher plants and animals it shows how the phenotype is reorganized during evolution to produce novelties and how alternative phenotypes occupy a pivotal role as a phase of evolution that fosters diversification and speeds change The arguments of this book call for a new view of the major themes of evolutionary biology as shown in chapters on gradualism homology

environmental induction speciation radiation macroevolution punctuation and the maintenance of sex No other treatment of development and evolution since Darwin's offers such a comprehensive and critical discussion of the relevant issues Developmental Plasticity and Evolution is designed for biologists interested in the development and evolution of behavior life history patterns ecology physiology morphology and speciation It will also appeal to evolutionary paleontologists anthropologists psychologists and teachers of general biology

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