



EVOLUTION OF SEX DETERMINING MECHANISMS

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Evolution Of Sex Determining Mechanisms

Aleksandr F. Smirnov, A. V. Trukhina



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Evolution of Sex Determining Mechanisms James J. Bull, 1983 The Evolution of Sex Determination Leo Beukeboom, Nicolas Perrin, 2014-06-12 Sexual reproduction is a fundamental aspect of life It is defined by the occurrence of meiosis and the fusion of two gametes of different sexes or mating types Sex determination mechanisms are responsible for the sexual fate and development of sexual characteristics in an organism be it a unicellular alga a plant or an animal In many cases sex determination is genetic males and females have different alleles or different genes that specify their sexual morphology In animals this is often accompanied by chromosomal differences In other cases sex may be determined by environmental e g temperature or social variables e g the size of an organism relative to other members of its population Surprisingly sex determination mechanisms are not evolutionarily conserved but are bewilderingly diverse and appear to have had rapid turnover rates during evolution Evolutionary biologists continue to seek a solution to this conundrum What drives the surprising dynamics of such a fundamental process that always leads to the same outcome two sex types male and female The answer is complex but the ongoing genomic revolution has already greatly increased our knowledge of sex determination systems and sex chromosomes in recent years This novel book presents and synthesizes our current understanding and clearly shows that sex determination evolution will remain a dynamic field of future research The Evolution of Sex Determination is an advanced research level text suitable for graduate students and researchers in genetics developmental biology and evolution

Evolution of Sex Determining Mechanisms James J. Bull, 1983 Classical sex determining mechanisms Male and female heterogamety 2 factor systems Multiple factor systems Genetics of sex development and the nature of sex factors A combinatorial enumeration of sex determining mechanisms 2 factor and multiple factor systems Evolution in multiple factor systems Evolution of the heterogametic mechanism of sex determination Polyfactorial sex determination Environmental sex determination ESD Evolution of environmental sex determination Uniparental males arrhenotoky Haplo diploidy and paternal genome loss Advantages of producing uniparental males Cytoplasmic sex determination A parental mechanism of sex determination maternal monogeny Sex chromosome evolution Characteristics of sex chromosomes extreme X Y heteromorphism Slight X Y heteromorphism and evidence of a transition Evolution of sex chromosome differences models and theory

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organism relative to other members of its population Surprisingly sex determination mechanisms are not evolutionarily conserved but are bewilderingly diverse and appear to have had rapid turnover rates during evolution Evolutionary biologists continue to seek a solution to this conundrum What drives the surprising dynamics of such a fundamental process that always leads to the same outcome two sex types male and female The answer is complex but the ongoing genomic revolution has already greatly increased our knowledge of sex determination systems and sex chromosomes in recent years This novel book presents and synthesizes our current understanding and clearly shows that sex determination evolution will remain a dynamic field of future research The Evolution of Sex Determination is an advanced research level text suitable for graduate students and researchers in genetics developmental biology and evolution

The Genetics and Biology of Sex

Determination Derek J. Chadwick, Jamie A. Goode, 2002-04-26 Nature employs a wide variety of sex determining mechanisms and it is only comparatively recently that the tools have become available for these to be explored at the cellular and molecular levels A major landmark was the discovery in 1990 of the SRY gene and the subsequent demonstration of its key role in triggering male sex determination in transgenic mice This book reviews and discusses our current understanding of the molecular genetic pathways of sex determination with special emphasis on vertebrates It features comparisons with other modes of sex determination consideration of the biology of sexual development and discussion of the evolution of sex determining mechanisms By bringing together an international and interdisciplinary group of experts who study many different aspects of the problem the book highlights much new and exciting work in this area and serves to identify and stimulate promising new research directions

Evolution of Sex-determining Mechanisms Irma Virginia Lagomarsino, 1990

Theoretical Studies on Sex Ratio Evolution Samuel Karlin, Sabin Lessard, 2020-03-31 This book deals with a key area of population genetics the ratio of the sexes in a population or the allocation of resources to male versus female reproductive function Samuel Karlin and Sabin Lessard establish the formal theoretical aspects of the evolution of sex ratio within the constraints of genetic mechanisms of sex determination Their results generalize and unify existing work on the topic strengthening previous conceptions in some cases and in other instances offering new directions of research There are two main approaches to understanding the causes and effects of sex ratio One approach focuses on the optimization and adaptive functions of sex allocation while the other emphasizes the consequences of genetic sex determination mechanisms In discussing the utility of these two approaches Professors Karlin and Lessard examine the principal sex determining mechanisms and facts involved in sex ratio representations the various genetic and environmental factors that contribute to adaptive sex expression and the evolution of sex determining systems and controls From a population genetic perspective the authors derive evolutionary properties in support of the high incidence of 1:1 sex ratio in natural populations and investigate the conditions that can explain the occurrence of biased sex ratio

Genes and Mechanisms in Vertebrate Sex

Determination Gerd Scherer, Michael Schmid, 2013-04-17 Following an opening chapter by the late Susumu Ohno on

paralogues of sex determining genes the five best studied genes essential for early mammalian gonadal development are portrayed in detail SF 1 and WT1 and their roles in early events in gonadal development SRY and SOX9 in testis determination and the anti testis gene DAX 1 Subsequent chapters look at the roles of these genes in sex determination in marsupial mammals birds reptiles amphibians and fish and review the different sex determining mechanisms genetic and environmental that operate in these different vertebrate classes Two insights emerge one that the same basic set of genes appears to operate during early gonadal development in all vertebrates despite the differences in mechanisms the other that sex determination in vertebrates results from a complex network of regulatory interactions and not from a simple hierarchical cascade of gene actions

The Princeton Guide to Evolution David A. Baum, Douglas J. Futuyma, Hopi E. Hoekstra, Richard E. Lenski, Allen J. Moore, Catherine L. Peichel, Dolph Schluter, Michael C. Whitlock, 2017-03-21 The essential one volume reference to evolution The Princeton Guide to Evolution is a comprehensive concise and authoritative reference to the major subjects and key concepts in evolutionary biology from genes to mass extinctions Edited by a distinguished team of evolutionary biologists with contributions from leading researchers the guide contains some 100 clear accurate and up to date articles on the most important topics in seven major areas phylogenetics and the history of life selection and adaptation evolutionary processes genes genomes and phenotypes speciation and macroevolution evolution of behavior society and humans and evolution and modern society Complete with more than 100 illustrations including eight pages in color glossaries of key terms suggestions for further reading on each topic and an index this is an essential volume for undergraduate and graduate students scientists in related fields and anyone else with a serious interest in evolution Explains key topics in some 100 concise and authoritative articles written by a team of leading evolutionary biologists Contains more than 100 illustrations including eight pages in color Each article includes an outline glossary bibliography and cross references Covers phylogenetics and the history of life selection and adaptation evolutionary processes genes genomes and phenotypes speciation and macroevolution evolution of behavior society and humans and evolution and modern society

Molecular-Genetic Mechanisms of Sex Determination in Animals Aleksandr F. Smirnov, A. V. Trukhina, Gender sex is a set of morphological and physiological characteristics of the organism underlying sexual reproduction the essence of which is reduced to fertilization i e the fusion of male and female gametes gametes zygote which develops into a new organism Sexual reproduction of a species is considered as one of the mechanisms of its homeostasis Thanks to this mechanism numerous species have an evolutionary advantage In the book two authors will discuss the types of genetic sex determination and differentiation mostly in multicellular animal organisms Sex determination is both genetic and environmental process the sex of an individual being established through an alternative physiological solution There are two main postulated mechanisms of sex determination genetic GSD Genetical Sex Determination and environmental ESD Environmental Sex Determination

Strickberger's Evolution Brian Keith Hall, Benedikt Hallgrímsson, Monroe W. Strickberger, 2014 Now with a new full

color design and art program the Fifth Edition of Strickberger's Evolution is updated with the latest data and updates from the field The authors took care to carefully modify the chapter order in an effort to provide a more clear and student friendly presentation of course material The original scope and theme of this popular text remains as it continues to present an overview of prevailing evidence and theories about evolution by discussing how the world and its organisms arose and changed over time New boxed features concentrating on modern and exciting research in the field are included throughout the text New and Key Features of the Fifth Edition New Full color design and art program Maintains the student friendly engaging writing style for which it is known A reorganized chapter order provides a more clear and accessible presentation of course material Chapters on the evolution of biodiversity are now found on the text's website Access to the companion website is included with every new copy of the text New boxed features highlight new and exciting research in the field

Sex Determination and Sexual Development, 2009-01-19 This volume reviews our current understanding for how sex determination is initiated and how it results in sexual dimorphic development Chapters discussing work on different model systems provide a basis for understanding similarities that exist between different species Coverage includes discussion of sexual development of the soma in *C. elegans* sexual development of the germline in *C. elegans* sexual development of the soma in *Drosophila* sexual development of the germline in *Drosophila* sexual development of the soma in the mouse sexual development of the germline in the mouse control of sex specific behavior in *Drosophila* and control of sex specific behavior in vertebrates Uncovers the latest research findings on sexual determination and sexual development Model systems illustrate key sexual similarities Explores in depth the origins of sex specific behavior

Mechanisms Driving Karyotype Evolution and Genomic Architecture Aurora Ruiz-Herrera, Marta Farré-Belmonte, 2021-08-31 Understanding of the origin of species and their adaptability to new environments is one of the main questions in biology This is fueled by the ongoing debate on species concepts and facilitated by the availability of an unprecedented large number of genomic resources Genomes are organized into chromosomes where significant variations in number and morphology are observed among species due to large scale structural variants such as inversions translocations fusions and fissions This genomic reshuffling provides in the long term new chromosomal forms on which natural selection can act upon contributing to the origin of biodiversity This book contains mainly articles reviews and an opinion piece that explore numerous aspects of genome plasticity among taxa that will help in understanding the dynamics of genome composition the evolutionary relationships between species and in the long run speciation

[Progress in Mosquito Research](#), 2016-08-25 Progress in Mosquito Research provides readers with the latest interdisciplinary reviews on the topic It is an essential reference source for invertebrate physiologists neurobiologists entomologists zoologists and insect chemists with Volume 51 focusing on recent progress in mosquito research Presents a comprehensive overview of recent progress in mosquito science Written by leaders in their respective areas of mosquito research Ideal resource for invertebrate physiologists neurobiologists entomologists

zoologists and insect chemists

Genetics and Genomics of Cucurbitaceae Rebecca Grumet, Nurit Katzir, Jordi

Garcia-Mas, 2017-10-13 This book provides an overview of the current state of knowledge of the genetics and genomics of the agriculturally important Cucurbitaceae plant family which includes crops such as watermelon melon cucumber summer and winter squashes pumpkins and gourds Recent years have resulted in tremendous increases in our knowledge of these species due to large scale genomic and transcriptomic studies and production of draft genomes for the four major species *Citrullus lanatus* *Cucumis melo* *Cucumis sativus* and *Cucurbita* spp This text examines genetic resources and structural and functional genomics for each species group and across species groups In addition it explores genomic informed understanding and commonalities in cucurbit biology with respect to vegetative growth floral development and sex expression fruit growth and development and important fruit quality traits

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 *Encyclopedia of Genetics* Eric C.R. Reeve, 2014-01-14 The Encyclopedia includes 125 entries beginning with the origins of genetics including historical background on the work of Gregor Mendel and Charles Darwin and progressing to the structure of DNA and modern theories such as selfish genes All branches of genetics are covered including the genetics of bacteria viruses insects animals and plants as well as humans Important topical issues such as the human genome project bioethics the law and genetics genetic disorders GM crops and the use of transgenic animals for food and pharmaceutical products are fully surveyed A section on techniques and biotechnology includes modern methods of analysis from DNA fingerprinting to the new science of bioinformatics The articles all written by specialists are largely non mathematical and progress from general concepts to deeper understanding Each essay is fully referenced with suggestions for further reading The text is supplemented by extensive illustrations tables and a color plate section The Encyclopedia of Genetics will be a valuable companion for all those working or studying in the various fields of genetical research and a fascinating reference for all readers with a basic background in biology Also includes color inserts

On Epigenetics and Evolution

Carlos M. Guerrero-Bosagna, 2024-06-25 The emergence of genomic variability is a fundamental process in evolution that has been the focus of recent high profile scientific debates with a particular focus on epigenetic modifications shown to influence genomic variability Epigenetics and Evolution a new volume in the Translational Epigenetics series introduces key themes from current epigenetic evolution research with contributions from leading scientists around the world that investigate the role of epigenetic mechanisms in evolution from a variety of different angles with each contribution combining theory current research overviews and applications This book gives researchers students and clinicians a better understanding of the origin of genotypic and phenotypic variability the role of epigenetics in development and inheritance how epigenetics may affect speciation and geographic distribution and the evolution of epigenetic mechanisms in different taxa and helps them apply

their learnings across new research Other modalities and subtopics explored include epigenetics in neutral evolution epigenetics and cellular physiology Paleo epigenetics Archeo epigenetics epigenetics and pathogen evolution epigenetics in unicellular organisms epigenetic evolution in plants invertebrates and vertebrates and the role of epigenetics in human evolution and its societal impact Introduces and examines the role of epigenetic modifications in regulating genomic variability and thus evolutionary biology across species Draws together key themes across epigenetic evolution in plants invertebrates and vertebrates and the role of epigenetics in human evolution Includes bulleted chapter summaries and key points lists terms and definitions and rich use of illustrations where possible to reinforce understanding and actionability of the content Features chapter contributions from international leaders in the field **Insect Reproduction** S. R. Leather, 2018-01-18 This book consisting of ten review chapters contributed by leading workers in their respective fields from around the world covers the whole subject of insect reproduction It begins with the basic physiological questions of insect reproduction moves on to discuss the new advances seen in the fields of behavioural and ecological mechanisms and culminates by examining the recent work on evolutionary biology and its application in the field Each chapter although including a brief review of the basic seminal work focuses mainly on the advances made within the last ten years and highlights those areas in which the respective authors see the greatest scope for further important advances

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