

A stylized graphic of a chromosome pair, consisting of two vertical bars connected by a horizontal band in the middle, rendered in a light gray color. It is centered on the page, behind the title text.

SEX CHROMOSOMES and SEX DETERMINATION in VERTEBRATES

Alberto J. Solari

Sex Chromosomes And Sex Determination In Vertebrates

David O. Norris, Kristin H. Lopez



Sex Chromosomes And Sex Determination In Vertebrates:

Sex Chromosomes and Sex Determination in Vertebrates Alberto J. Solari, 2024-11-01 The cloning of the SRY gene and the attainment of XX mice transgenic for the Sry gene opened a new era in research on sex determination This book surveys current knowledge of sex chromosomes and sex determination in all vertebrate classes relying on the restriction of genetic recombination in sex chromosomes as the unifying concept of this subject The book's interdisciplinary approach integrates contributions from the fields of cytogenetics molecular biology developmental biology and evolutionary genetics A detailed treatment of the meiotic behavior of sex chromosomes is featured and the entire text is supplemented by numerous schemes drawings and electron micrographs The book will be valuable to general cytogeneticists vertebrate zoologists and veterinarian and medical practitioners interested in the foundations of sex determination and the current knowledge of sex chromosomes It will also interest students in advanced undergraduate and graduate courses in these areas *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 **Sex Determination in Vertebrates**, 2019-04-16 Sex Determination Volume 134 the latest release in the Current Topics in Developmental Biology series contains current reviews in the field of vertebrate sex determination It covers molecular pathways of sex determination in genetic and environmental species and encompasses both sex determination of somatic lineages and commitment of germ cells to male or female fate Chapters in this new release cover amongst other topics Mapping the Sox9 Enhancer Elements Epigenetic Regulation of Sex Determination Evolution and Management of Sex Chromosomes Regulation of Germ Cell Sex Identity in Medaka Control of Sex Determination in Zebrafish Sexually Dimorphic Germ Cell Identity in Mammals and more Contains reviews written by leading experts in each field Includes informative figures that illustrate principle points that are useful for teaching Written in a style that is clear and simple *Temperature-Dependent Sex Determination in Vertebrates* Nicole Valenzuela, Valentine A. Lance, 2004 Edited by the world's foremost authorities on the subject with essays by leading scholars in the field this work shows how the sex of reptiles and many fish is determined not by the chromosomes they inherit but by the temperature at which incubation takes place Vertebrate Sex Chromosomes Nobuo Takagi, 2003 During the last two decades of the 20th century the study of

chromosomes was enormously stimulated by the availability of various biological resources valuable databases and new genetic and molecular biological techniques including PCR and fluorescent in situ hybridization The simultaneous development of new and effective systems for targeting genes and gene transfer led to astonishing advances also in the study of vertebrate sex chromosomes We now have considerable insight into their evolution the dosage compensation mechanisms in mammals that involve chromosome wide chromatin remodeling triggered by noncoding Xist RNA and the unique properties of the human X chromosome which comprises many genes important for sex determination and reproduction This thematic issue of Cytogenetic and Genome Research presents an excellent and highly authoritative compilation of current research findings related to vertebrate sex chromosomes The contributions all prepared by experts in the field reflect both the technical advances and the enormous gain in knowledge achieved in recent years Many of these papers also provide important historical perspectives while some contain insightful personal views of the authors This special volume therefore represents a stimulating and critical state of the art source of information for investigators and students in this fascinating field

Sex Chromosomes and Sex-determining Genes Ken Reed, Jennifer A. Marshall Graves, 1993 The emphasis throughout is on the genetic determinants of sex The major issues addressed are sex chromosome differentiation X chromosome inactivation and the role of the Y linked gene SRY in gonad differentiation A combination of authoritative reviews and original articles drawn from experiment and observation on a variety of systems is complemented by the editors thoughtful introductions Sex is compelling in its benefits elegant in its conception startling in its manifestations So begins this timely and thoughtful review of the most fascinating property of life For centuries we have puzzled over the differences between males and females but only recently have we begun to understand the genetic switches that trigger the dramatic differences in form and function between the sexes This book brings together contributions from many of the scientists who have been responsible for recent stunning advances in our understanding of sex determination and sexual differentiation The editors have

Vertebrate Endocrinology David O. Norris, James A. Carr, 2013-05-04 Vertebrate Endocrinology represents more than just a treatment of the endocrine system it integrates hormones with other chemical bioregulatory agents not classically included with the endocrine system It provides a complete overview of the endocrine system of vertebrates by first emphasizing the mammalian system as the basis of most terminology and understanding of endocrine mechanisms and then applies that to non mammals The serious reader will gain both an understanding of the intricate relationships among all of the body systems and their regulation by hormones and other bioregulators but also a sense of their development through evolutionary time as well as the roles of hormones at different stages of an animal's life cycle Includes new full color format includes over 450 full color completely redrawn image Features a companion web site hosting all images from the book as PPT slides and jpeg files Presents completely updated and revitalized content with new chapters such as Endocrine Disrupters and Behavioral Endocrinology Offers new clinical correlation vignettes throughout *Hormones and*

Reproduction of Vertebrates, Volume 3 David O. Norris, Kristin H. Lopez, 2011-05-04 This series of volumes represents a comprehensive and integrated treatment of reproduction in vertebrates from fishes of all sorts through mammals. It is designed to provide a readable coordinated description of reproductive basics in each group of vertebrates as well as an introduction to the latest trends in reproductive research and our understanding of reproductive events. Whereas each chapter and each volume is intended to stand alone as a review of that topic or vertebrate group respectively, the volumes are prepared so as to provide a thorough topical treatment across the vertebrates. Terminology has been standardized across the volumes to reduce confusion where multiple names exist in the literature and a comprehensive glossary of these terms and their alternative names is provided. A complete essential and up to date reference for research scientists working on vertebrate hormones and reproduction and on animals as models in human reproductive research. Covers the endocrinology, neuroendocrinology, physiology, behaviour and anatomy of vertebrate reproduction. Structured coverage of the major themes for all five vertebrate groups allows a consistent treatment for all. Special chapters elaborate on features specific to individual vertebrate groups and to comparative aspects, similarities and differences between them. *Hormones and Reproduction of Vertebrates, Volume 1* David O. Norris, Kristin H. Lopez, 2011-05-04 This series of volumes represents a comprehensive and integrated treatment of reproduction in vertebrates from fishes of all sorts through mammals. It is designed to provide a readable coordinated description of reproductive basics in each group of vertebrates as well as an introduction to the latest trends in reproductive research and our understanding of reproductive events. Whereas each chapter and each volume is intended to stand alone as a review of that topic or vertebrate group respectively, the volumes are prepared so as to provide a thorough topical treatment across the vertebrates. Terminology has been standardized across the volumes to reduce confusion where multiple names exist in the literature and a comprehensive glossary of these terms and their alternative names is provided. A complete essential and up to date reference for research scientists working on vertebrate hormones and reproduction and on animals as models in human reproductive research. Covers the endocrinology, neuroendocrinology, physiology, behaviour and anatomy of vertebrate reproduction. Structured coverage of the major themes for all five vertebrate groups allows a consistent treatment for all. Special chapters elaborate on features specific to individual vertebrate groups and to comparative aspects, similarities and differences between them. *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

Molecular Approaches in Natural Resource Conservation and Management J. Andrew DeWoody, John W. Bickham, Charles H. Michler, Krista M. Nichols, Gene E. Rhodes, Keith E. Woeste, 2010-06-14 Recent advances in molecular genetics and genomics have been embraced by many in natural resource conservation Today several major conservation and management journals are now using genetics editors to deal solely with the influx of manuscripts that employ molecular data The editors have attempted to synthesize some of the major uses of molecular markers in natural resource management in a book targeted not only at scientists but also at individuals actively making conservation and management decisions To that end the text features contributors who are major figures in molecular ecology and evolution many having published books of their own The aim is to direct and distil the thoughts of these outstanding scientists by compiling compelling case histories in molecular ecology as they apply to natural resource management

Evolutionary Biology - Concepts, Molecular and Morphological Evolution Pierre Pontarotti, 2010-08-24 The annual Evolutionary Biology Meetings in Marseille aim to bring together leading scientists promoting an exchange of state of the art knowledge and the formation of inter group collaborations This book presents the most representative contributions to the 13th meeting which was held in September 2009 It comprises 21 chapters which are organized into the following three categories Evolutionary Biology Concepts Genome Molecular Evolution Morphological Evolution Speciation This book offers an up to date overview of evolutionary biology concepts and their use in the biology of the 21st century

Mechanisms of Gonadal Differentiation in Vertebrates U. Müller, W. Franke, 2012-12-06 Epigenetics in Aquaculture Francesc Piferrer, Hanping Wang, 2023-06-27

EPIGENETICS IN AQUACULTURE This essential guide will allow you to understand how new developments in our knowledge of epigenetic mechanisms and epigenetic inheritance can be applied to improve aquaculture production and aquatic resource management and conservation Epigenetics is the study of heritable changes in gene expression that are independent of alterations in the nucleotide sequence It integrates genomic and environmental influences to shape the phenotype Epigenetics is a field with particular relevance to aquaculture and aquatic organisms since it underpins acclimatory responses to diverse and changing environments and inheritance of desired phenotypes Epigenetics in Aquaculture provides a comprehensive introduction to epigenetics epigenetic mechanisms epigenetic inheritance and research methods It also provides the current state of the art on research and development on epigenetics in the major functions of aquatic organisms in the framework of aquaculture production The fact that aquaculture is the fastest growing sector of food production makes the book especially timely Readers will also find Detailed treatment of subjects including aquatic faunal reproduction sex determination growth regulation nutritional programming disease resistance stress response and much more Survey of current research lacunae and the projected future of the discipline An authorial team of

internationally renowned experts Epigenetics in Aquaculture is a valuable reference for researchers biologists and advanced students in any area of marine science oceanography aquaculture environmental science and food production

Hormones and Reproduction of Vertebrates, Volume 2 David O. Norris, Kristin H. Lopez, 2024-07-17 Hormones and Reproduction of Vertebrates Volume 2 Amphibians is the second of five second edition volumes representing a comprehensive and integrated overview of hormones and reproduction in fishes amphibians reptiles birds and mammals The book includes coverage of endocrinology neuroendocrinology physiology behavior and anatomy of amphibian reproduction It provides a broad treatment of the roles of pituitary thyroid adrenal and gonadal hormones in all aspects of reproduction as well as descriptions of major life history events New to this edition is a concluding assessment of the effect of environmental influences on amphibians Initial chapters in this book broadly examine sex determination reproductive neuroendocrinology stress and hormonal regulation as it relates to male and female reproductive structure and function Subsequent chapters examine hormones and reproduction of specific taxa including anuran amphibians urodeles and gymnophionids The book concludes with an examination of endocrine disruption of reproduction in amphibians Hormones and Reproduction of Vertebrates Volume 2 Amphibians is designed to provide a readable coordinated description of reproductive basics in amphibians as well as an introduction to the latest trends in reproductive research and a presentation of our understanding of reproductive events gained over the past decade It may serve as a stand alone reference for researchers and practitioners in the field of herpetology or as one of five coordinated references aligned to provide topical treatment across vertebrate taxa for researchers practitioners and students focused on vertebrate endocrinology Covers endocrinology neuroendocrinology physiology behavior anatomy and development of amphibian reproduction Includes pituitary thyroid adrenal and gonadal hormones Focuses on anuran urodele and gymnophiona amphibians Provides new coverage on environmental disruption in amphibians

Population Sciences, 1979 Medaka Kiyoshi Naruse, Minoru Tanaka, Hiroyuki Takeda, 2011-05-30 *Oryzias latipes* known as medaka is a model organism from East Asia Breeding of this small egg laying freshwater teleost fish has long been popular among hobbyists in Japan Now as biological science has entered the genome era the medaka provides significant advantages that make it one of the most valuable vertebrate models a large collection of spontaneous mutants collected over a century the presence of highly polymorphic inbred lines established over decades and a recently completed genome sequence This book is the first comprehensive monograph to cover a variety of medaka research It opens with a historical view of medaka followed by a series of research topics in the four major areas where the medaka is increasingly important genomics genetics and resources organogenesis and disease models germ cells sex determination and reproduction and evolution Readers will find state of the art information on medaka genetics and genomics such as the first isolation of active transposons in vertebrates the influence of chromatin structure on sequence variation fine QTL analysis and versatile mutants as human disease models

Comparative Vertebrate Reproduction Julian Lombardi, 2012-12-06

Comparative Vertebrate Reproduction is the only comprehensive textbook covering major topics in the reproductive biology of vertebrates from sexuality and gametogenesis to reproductive ecology and life history tactics. The work draws heavily on recent reviews and papers while placing topics in a historical context and conceptual framework. In addition, the author provides detailed comparative surveys of each of the major topics discussed. Comparative Vertebrate Reproduction has been written as a textbook for upper level undergraduate and graduate level students in biology, zoology, physiology, animal science, and veterinary medicine. The work also serves as an excellent reference for researchers in medical and veterinary schools working in reproductive medicine.

Lampreys: Biology, Conservation and Control Margaret F. Docker, 2019-06-03. This book, published in two volumes, provides the most comprehensive review of lamprey biology since Hardisty and Potter's *The Biology of Lampreys* published more than 30 years ago. This second volume offers a synthesis of topics related to the lamprey gonad, e.g., lamprey sex ratios, sex determination and sex differentiation, sexual maturation and sex steroids, the artificial propagation of lampreys, post-metamorphic feeding and the evolution of alternative feeding and migratory types, the history and status of sea lamprey control in the Laurentian Great Lakes and Lake Champlain, and an overview of contributions of lamprey developmental studies for understanding vertebrate evolution.

Transitions Between Sexual Systems Janet L. Leonard, 2019-05-21. This book focuses on explaining the distribution of sexual systems: simultaneous hermaphroditism, sequential hermaphroditism, environmental sex determination, dioecy, and androdioecy, etc., among taxa, which remains a major challenge in evolutionary biology. Although significant advances have been made for angiosperms, there is not yet a theory that predicts the sexual system for the majority of animal taxa, and other taxa of plants also remain poorly understood. The problem, particularly for animals, is that sexual systems can be very conservative, with whole phyla and classes being characterized by a single sexual system. For example, essentially the whole phylum Platyhelminthes is simultaneously hermaphroditic, whereas the Insecta Hexapoda and the Tetrapoda among the vertebrates are exclusively dioecious. Sex allocation theory, on the other hand, suggests that sexual systems should be highly responsive to evolution, changing with population density, life span, patterns of resource availability, etc. The book provides an overview of the topic and then presents a series of chapters, each dealing with a taxon with substantial lability in sexual system, in order to identify the factors associated with changes in sexual system in each case. By doing so, the authors reveal factors that have not been considered in formal theory but seem to have a major impact on transitions between sexual systems. This book appeals to a wide readership in fields from zoology and evolutionary biology to botany.

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