

# Sex Chromosomes Ratio

**Evolution of Sex Determining Mechanisms** - James J. Bull 1983

**Gender Differences: Their Ontogeny and Significance** - Christopher Ounsted 1972

*Sex Determination in Fish* - T. J. Pandian 2011-09-02

This book is the first to report that research in allogenis/xenogenics has conclusively shown that fishes have retained bisexual potency even after sexual maturity and spermiation. The XY genotype found in the unexpected female phenotypes sired by supermales (Y1Y2) and androgenic males (Y2Y2) points out the need to employ sex specific molecular ma

[Sex-linked Inheritance in Drosophila](#) - Thomas Hunt Morgan 2022-08-10

The following book was written by Thomas Hunt Morgan and Calvin Bridges, and made the former world-famous. It was in the studies covered in the following publication that Morgan discovered that genes are carried on chromosomes and are the mechanical basis of heredity. These discoveries formed the basis of the modern science of genetics; and he would later win the Nobel Prize in Physiology or Medicine in 1933 for his findings.

**Sex Determination** - Shanmugaratnam K. 1961

[Factors Affecting the Sex Ratio of Swine](#) - Jean Marc Belanger 1964

"The idea of the control of the sex ratio is not a recent one. According to Gordon (1958), men have been attempting to control or predict the sex of their offspring for thousands of years. This subject was discussed in a Chinese Manuscript about 4,400 years ago. An Egyptian papyrus of 2,200 B.C. noted that a pregnant woman with the use of greenish cast was certain to bear a son. Aristotle believed that the placing of the marriage bed in a north-south direction favored the conception of boys. These are examples of the many beliefs that have been reported regarding sex determination, which have since been demonstrated to be false. The scientific history of the subject of sex determination began with the discovery of the genetic mechanism by which sex is determined in mammals. According to genetic theory, the male mammal has a special pair of sex chromosomes made up of one X chromosome and one so-called Y chromosome." --

**Ecological Aspects of Sex Ratio and Reproduction in Experimental and Field Populations of the Marine Copepod Tigriopus**

[Californicus](#) - David Allen Egluff 1975

*Theoretical Studies on Sex Ratio Evolution* - Samuel Karlin 1986-07-21

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.

**Sex Chromosomes and Sex Determination in Vertebrates** - Alberto J. Solari 1993-10-22

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.

**Sex Determination** - Guido Bacci 1965

**Meiotic Drive Via Sex Ratio Chromosome In Drosophila**

**Pseudoobscura** - Jonathan George Westlake 2019

Under normal circumstances in an XY sex determination system, an XY male mated to a female should produce 50% male and 50% female offspring. Selfish genetic elements can defy Mendel's law of segregation through a biased transmission of the X chromosome over the Y leading to a biased sex ratio. *Drosophila pseudoobscura* has such a selfish genetic element on its X chromosome referred to as the Sex ratio chromosome. Males with a Sex Ratio X chromosome produce 95% daughters rather than the expected 50%. Cytogenetic analysis of the Sex ratio chromosome found three nonoverlapping inversion differences between the Standard and Sex Ratio X chromosomes, basal, medial, and terminal inversions. Inversion mutations occur when a chromosome breaks in two locations and the intervening segment rejoins in reverse order. The genetic consequence of the inversion is to suppress genetic exchange between maternal and paternal chromosomes during the formation of eggs and sperm. For nonoverlapping inversions, it may be possible for genetic exchange to shuffle the three different inversions during gamete formation. Here, we test whether genetic exchange shuffles the three nonoverlapping inversions in a three-point mapping cross. We used a genetic cross of an ST/SR female crossed to an ST/Y male. Male offspring from this cross were crossed to a female strain homozygous for a multiply marked Standard X chromosome and tested for which of the three inverted segments that they carried and the sex ratio of their offspring. We found no evidence for genetic exchange among any of the nonoverlapping inversions despite a significant genetic distance between the medial and terminal inversion. Sex ratio males confirmed the strong biased transmission of the X chromosome versus the Y chromosome. We conclude that the three nonoverlapping inversions suppress genetic exchange even in regions where genetic exchange could occur.

**The Determination of Sex** - L. Doncaster 2015-03-12

Originally published in 1914, this book contains a study of the causes that lead to the appearance of males and females in a number of species, including humans. Doncaster uses simple language to appeal to a non-specialist audience, and the text is illustrated with a number of plates illustrating the differences between the sexes in insects, birds and mammals. This book will be of value to anyone with an interest in the history of science.

**Sex-determination** - Francis Albert Eley Crew 1965

[Temperature-Dependent Sex Determination in Vertebrates](#) - Nicole Valenzuela 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.

**Exploring the Biological Contributions to Human Health** - Institute of Medicine 2001-07-02

It's obvious why only men develop prostate cancer and why only women get ovarian cancer. But it is not obvious why women are more likely to recover language ability after a stroke than men or why women are more apt to develop autoimmune diseases such as lupus. Sex differences in health throughout the lifespan have been documented. Exploring the Biological Contributions to Human Health begins to snap the pieces of the puzzle into place so that this knowledge can be used to improve health for both sexes. From behavior and cognition to metabolism and response to chemicals and infectious organisms, this book explores the

health impact of sex (being male or female, according to reproductive organs and chromosomes) and gender (one's sense of self as male or female in society). Exploring the Biological Contributions to Human Health discusses basic biochemical differences in the cells of males and females and health variability between the sexes from conception throughout life. The book identifies key research needs and opportunities and addresses barriers to research. Exploring the Biological Contributions to Human Health will be important to health policy makers, basic, applied, and clinical researchers, educators, providers, and journalists-while being very accessible to interested lay readers. *Preferential Segregation of the Y Chromosome in Spermatogenesis of Drosophila Melanogaster* - Carola Marietta Cattani 1966

**Heredity and Sex** - Thomas Hunt Morgan 1913

**Choosing Sexes** - Kristen J. Navara 2018-02-01

There is extensive evidence that vertebrates of all classes have the ability to control the sexes of the offspring they produce. Despite dramatic differences in the mechanisms by which different taxa determine the initial sex of offspring, each group has found its own way of adjusting offspring sex ratios in response to social and environmental cues. For example, stress is a well-known modulator of offspring sex in members of all groups studied to date. Food availability, and limitation in particular, is another common cue that stimulates biases in offspring sex ratios in a wide variety of species. Offspring sex can be adjusted at the primary level, which occurs prior to conception, or at the secondary level, during embryonic development. While the mechanistic pathways that ultimately result in sex ratio biases and the developmental time-points sensitive to those mechanisms likely differ among taxa, the key involvement of steroid hormones in the process of sex ratio adjustment appears to be pervasive throughout. This book reviews the systems of sex determination at play in different vertebrate groups, summarizes the evidence that members of all vertebrate taxa can facultatively adjust offspring sex, and discusses when and how these adjustments can take place.

[Sex Chromosome Evolution in Blow Flies](#) - Anne Amarila Andere 2020

Chromosomal mechanisms of sex determination vary greatly in phylogenetically closely related species, indicative of rapid evolutionary rates. Sex chromosome karyotypes are generally conserved within families; however, many species have derived sex chromosome configurations. Insects display a plethora of sex chromosome systems due to rapid diversification caused by changes in evolutionary processes within and between species. A good example of such a system are insects

in the blow fly family Calliphoridae. While cytogenetic studies observe that the karyotype in blow flies is highly conserved (five pairs of autosomal chromosomes and one pair sex chromosome), there is variation in sex determining mechanisms and sex chromosome structure within closely related species in blow flies. The evolutionary history of sex chromosomes in blow fly species have not been fully explored. Therefore, the objective of this research was to characterize the sex chromosome structures in four species of blow flies and investigate the selective forces which have played a role in shaping the diverse sex chromosome system observed in blow flies. The blow fly species used in this study are *Phormia regina*, *Lucilia cuprina*, *Chrysomya rufifacies* and *Chrysomya albiceps*. *Phormia regina*, and *Lucilia cuprina* have a heteromorphic sex chromosome system and are amphogenic (females produce both male and female offspring in equal ratio). In contrast, *Chrysomya rufifacies* and *Chrysomya albiceps*, have a homomorphic sex chromosome system, are monogenic (females produce unisexual progeny), have two types of females (arrhenogenic females - male producers and thelygenic females - female producers), and sex of the offspring is determined by the maternal genotype. To accomplish these tasks, a total of nine male and female individual draft genomes for each of the four species (including three individual draft genomes of *Chrysomya rufifacies* - male, and the two females) were sequenced and assembled providing genomic data to explore sex chromosome evolution in blow flies. Whole genome analysis was utilized to characterize and identify putative sex chromosomal sequences of the four blow fly species. Genomic evidence confirmed the presence of genetically differentiated sex chromosomes in *P. regina* and *L. cuprina*; and genetically undifferentiated sex chromosomes in *C. rufifacies* and *C. albiceps*. Furthermore, comparative analysis of the ancestral Dipteran sex chromosome (Muller element F in *Drosophila*) was determined to be X-linked in *P. regina* and *L. cuprina* contributing to sex chromosome differentiation but not sex-linked in *C. rufifacies* and *C. albiceps*. Evolutionary pressures are often quantified by the ratio of substitution rates at non-synonymous (dN) and synonymous (dS) sites. Substitution rate ratio analysis (dN/dS) of homologous genes indicated a weaker purifying selection may have contributed to the loss of sex-linked genes in Muller element F genes of the undifferentiated sex chromosome as compared to the differentiated sex chromosome system. Overall, the results presented herein greatly expands our knowledge in sex chromosome evolution within blow flies and will reinforce the study of sex chromosome evolution in other species with diverse sex chromosome systems.

*Sex Wars* - M. E. N. Majerus 2003

Publisher Description

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