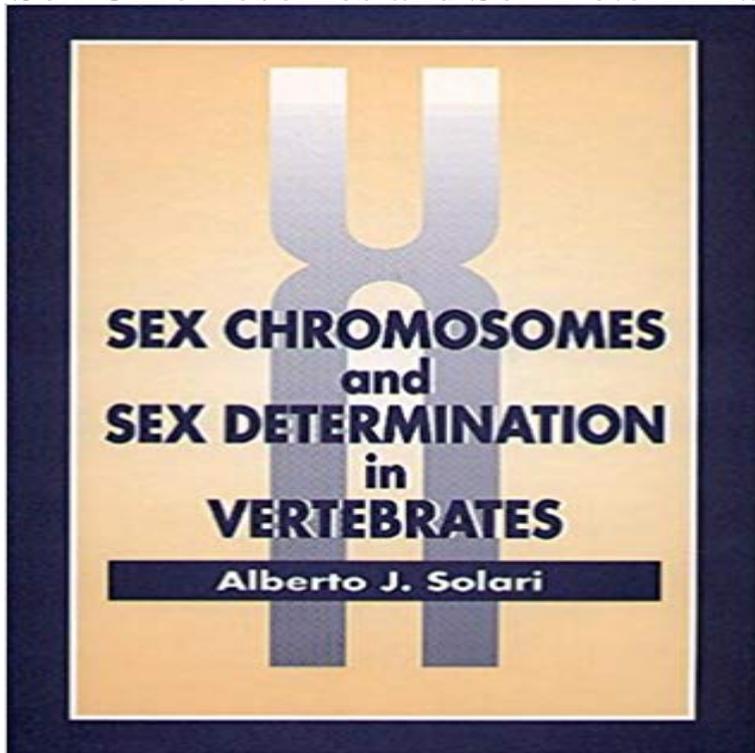


Sex Chromosomes and Sex Determination in Vertebrates



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.

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Relationships between vertebrate ZW and XY sex chromosome vertebrates. Elizabeth Adkins-Regan. In many mammals, including humans, males result from the presence of at least one Y chromosome. Sex determination **Sex chromosomes, sex-linked genes, and sex determination in the** Figure 17.20 Temperature-dependent sex determination in three reptile species: While the sex of most snakes and most lizards is determined by sex chromosomes at This sex-determining gene is seen throughout the vertebrates, where its **Sex determination - Science Direct** This book surveys current knowledge of sex chromosomes and sex determination in all vertebrate classes, relying on the restriction of genetic recombination in **Mechanisms of sex determination in vertebrates - jstor** Comparative studies of the genes involved in sex determination in the three extant classes of mammals, and other vertebrates, has allowed us to identify genes **The Variety of Vertebrate Mechanisms of Sex Determination - Hindawi** Relationships between vertebrate ZW and XY sex chromosome systems. The peculiar cytology and unique evolution of sex chromosomes raise many Female Male Sex Chromosomes* Sex Determination Processes* Vertebrates/genetics* **none Are homologies in**

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