

# *Sex Determination In Mouse & Man*



*The Royal Society*

# Sex Determination In Mouse Man

**Edwin Grant Conklin**



## **Sex Determination In Mouse Man:**

**Sex Itself** Sarah S. Richardson, 2013-12-13 Human genomes are 99.9 percent identical with one prominent exception. Instead of a matching pair of X chromosomes, men carry a single X coupled with a tiny chromosome called the Y. Tracking the emergence of a new and distinctive way of thinking about sex represented by the unalterable, simple and visually compelling binary of the X and Y chromosomes, *Sex Itself* examines the interaction between cultural gender norms and genetic theories of sex from the beginning of the twentieth century to the present postgenomic age. Using methods from history, philosophy and gender studies of science, Sarah S. Richardson uncovers how gender has helped to shape the research practices, questions asked, theories and models and descriptive language used in sex chromosome research. From the earliest theories of chromosomal sex determination to the mid-century hypothesis of the aggressive XYY supermale to the debate about Y chromosome degeneration to the recent claim that male and female genomes are more different than those of humans and chimpanzees, Richardson shows how cultural gender conceptions influence the genetic science of sex. Richardson shows how sexual science of the past continues to resonate in ways both subtle and explicit in contemporary research on the genetics of sex and gender. With the completion of the Human Genome Project, genes and chromosomes are moving to the center of the biology of sex. *Sex Itself* offers a compelling argument for the importance of ongoing critical dialogue on how cultural conceptions of gender operate within the science of sex.

*Cell and Molecular Biology of the Testis* Claude Desjardins, Larry L. Ewing, 1993 This book is a comprehensive multi-authored work on the structure and function of the mammalian testis. The approach emphasizes gene expression, translation and production of specific gene products and the cellular and molecular regulation of these fundamental processes. Rather than provide a global survey of all aspects of male reproduction, this book stresses specific mechanisms that underscore the structure and function of the testis. It explains old and new concepts from a cellular and molecular perspective. This novel approach allows the authors to forge links between cell and molecular biology and well-established aspects of spermatogenesis and steroidogenesis. The result is a well-focused, comprehensive and synthetic analysis of testicular biology.

**Philosophical Transactions of the Royal Society of London**, 1988

**Cumulated Index Medicus**, 1971

Twentieth Century Mouse Genetics Robert P. Erickson, 2021-08-26 Twentieth Century Mouse Genetics: A Historical and Scientific Review provides a comprehensive examination of key advances in mouse genetics throughout the 20th century. Here, Dr. Robert P. Erickson, a leader in the field, identifies the contributions of historic mouse genetics studies and how those approaches and early discoveries are still shaping human genetics research and medical genetics today. In addition to historical overviews, the author provides researcher biographies and updates connecting historic research to ongoing advances. Past studies discussed use the T-t complex as an example and include the origins of mouse genetics, the synthesis of genetics and evolution, cytogenetics and gene mapping, population genetics and mutation research, immunogenetics, reproductive genetics, molecular cloning, X inactivation and epigenetics, sex determination

and pharmacogenetics Here researchers students and clinicians will find fresh inspiration to engage in human genetics research employing mouse models and to translate those findings to clinical practice Offers a comprehensive examination of key advances in mouse genetics throughout the 20th century Includes updates connecting historic research to ongoing advances Authored by a thought leader in the field *Understanding Differences and Disorders of Sex Development (DSD)* O. Hiort, S.F. Ahmed, 2014-09-15 Ten years ago a group of experts assembled in Chicago to develop a consensus on the management of conditions previously described as intersex The consequences of this consensus have been far reaching including a change in nomenclature the development of greater collaboration across geographical boundaries and a move towards greater involvement of patients and parents Moreover an international registry was established as well as research and clinical networks This book brings together a thorough overview on all these topics Furthermore the major technological advances in diagnostic genetic and biochemical capabilities over the past 10 years are outlined in detail Offering a comprehensive update on various aspects of disorders of sex development DSD this book will be essential reading to all clinicians who are involved in delivering health care to patients with a DSD as well as scientists involved in biomedical research related to DSD **Biomedical Index to PHS-supported Research: pt. A. Subject access A-H**, 1992

**Structure and Function of Eukaryotic Chromosomes** Wolfgang Hennig, 2013-06-29 This book presents an overview of various aspects of chromosome research written by leading experts of the respective fields combining classic and recent molecular biological results The variety and comprehensiveness make it a handbook of chromosome research for all scientists teachers and graduate students interested in this field Dieses Buch fa t die unterschiedlichen Aspekte der Chromosomenforschung in Beitr gen von f hrenden Wissenschaftlern zusammen wobei die klassischen Erkenntnisse mit neuesten Forschungsdaten zu einem umfassenden berblick ber das Gebiet kombiniert werden **Why Men Won't Ask for Directions** Richard C. Francis, 2013-12-03 Much of the evolutionary biology that has grabbed headlines in recent years has sprung from the efforts of sociobiologists and evolutionary psychologists to explain sexual features and behavior even differences between how men and women think as evolutionary adaptations They have looked to the forces of natural selection to explain everything from the mimicry of male mockingbirds to female orgasms among humans In this controversial book Richard Francis argues that the utility of this approach is greatly exaggerated He proposes instead a powerful alternative rooted in the latest findings in evolutionary biology as well as research on the workings of our brains genes and hormones Exploring various sexual phenomena Francis exposes fundamental defects in sociobiology and evolutionary psychology which he traces to their misguided emphasis on why questions at the expense of how questions Francis contends that this preoccupation with why questions such as Why won t men ask for directions results in a paranoid mindset and distorted evolutionary explanations His alternative framework entails a broader conception of what constitutes an evolutionary explanation one in which both evolutionary history as embodied in the tree of life and developmental

processes are brought to the foreground This alternative framework is also better grounded in basic biology Deeply learned consistently persuasive and always engaging this book is a welcome antidote to simplistic sociobiological exegeses of animal and human behavior Biomedical Index to PHS-supported Research ,1993 **Gendered Innovations in Science and Engineering** Londa L. Schiebinger,2008 This volume which includes essays by women scientists researchers journalists and administrators investigates how gender analysis can spark creativity in science and engineering **Research Awards Index** ,1989 **Research Grants Index** National Institutes of Health (U.S.). Division of Research Grants,1972 Sex in Man and Animals John Randal Baker,1926 **Heredity and Environment in the Development of Men** Edwin Grant Conklin,1919 Reproductive Immunology Satish Kumar Gupta,2012-12-06 Reproductive Immunology is a compilation of research articles presented during the VII International Congress of Reproductive Immunology which was held in New Delhi India on 27 30 October 1998 The articles pertain to the following six major themes Molecular and Immunological Aspects of Sperm Egg Interaction Embryonic Endometrial Cross Talk Immunobiology of Pregnancy Autoantibodies and Infertility Immunocontraception Mucosal Immunology and Reproductive Tract Infections The first section deals with our current understanding of various steps involved in fertilization The functional significance of sperm surface mannosidase and glutathione S transferases to bind zona pellucida is described The role of zona pellucida glycoproteins in the binding of sperm induction of acrosome reactions and avoidance of polyspermy is discussed In the second section the role of various cytokines growth factors and immunomodulatory agents in implantation of embryos is described In the field of reproductive immunology one of the major issues is to explore the successful gestation of the histoincompatible fetus in the uterus of an immunologically competent mother The Proceedings presents the issues of paternal antigens at the fetomaternal interface and shows that Th2 type of immunity is involved in normal successful conception The role of membrane bound and soluble HLA G in protecting the fetus from the lytic activities of maternal uterine and peripheral blood natural killer NK cells is also presented Nature's experiments suggest that antibodies against sperm specific antigens are responsible for infertility in some women The possibility that an immunogenetic background contributes to production of sperm immobilizing antibodies in infertile women is discussed in the section on autoantibodies and infertility The Proceedings presents the issue of Th1 type cytokines in inducing recurrent spontaneous abortions of unexplained etiology The roles of 2 glycoprotein 1 2 GP1 dependent anticardiolipin antibody lupus anticoagulant antiphospholipids anti thyroid antibody and anti nuclear antibody in miscarriages are also described The rising global human population particularly in the developing countries has driven the need for new and safer methods of contraception Fertility regulation by vaccines is thus an interesting proposition The section on contraceptive vaccines discusses the latest advances in this area and describes the current status of vaccines based on hCG sperm antigens zona pellucida glycoproteins and riboflavin carrier proteins The issues of mucosal immunity and strategies for enhancing local genital immune responses to combat HIV infection is discussed The role of inflammatory

and related cytokines in chorioamnionitis is described The contents of this Proceedings describes various facets of reproductive immunology which will help us to design strategies to combat genital infections and miscarriages caused by immunological etiology Descriptions of the molecular basis of gamete recognition implantation and survival of the allogenic fetus will help in designing strategies for overcoming infertility and also new contraceptive approaches The Proceedings will be useful to researchers and clinicians involved in basic or applied research in the disciplines of reproductive biology reproductive immunology and obstetrics and gynecology Journal of Genetics ,1924 Index Medicus ,2004 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings *Genetic Analysis* William Kaufman Baker,1965 Genetic analysis introduced Language symbols and ratios The genetic units of recombination The genetic units of function The genetic units of mutation Physical counterparts of the genophore Genetic analysis of meiosis of normal chromosomes Genet analysis aberrat cromosomes *Population Sciences* ,1979 The index is based on citations selected from the corresponding monthly issue of Index medicus

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