
Results and Problems
in Cell Differentiation
Volume 15

Spermatogenesis Genetic Aspects

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Spermatogenesis Genetic Aspects

**Sandro C Esteves, Chak-Lam
Cho, Ahmad Majzoub, Ashok Agarwal**



Spermatogenesis Genetic Aspects:

Spermatogenesis Genetic Aspects Wolfgang Hennig, 2013-11-11 Spermatogenesis is one of the fundamental but at the same time also one of the most complex differentiation processes in higher eukaryotes For a long time the development of spermatozoa has been considered as related solely to the needs of transfer of the paternal genome into the egg Other paternal contributions to the development of the embryo were not seriously considered Only recently has it become evident from studies of mouse embryonic development by Solter and colleagues that also the paternal genome carries regulatory information into the zygote since the development of a mouse embryo requires the presence of the maternal as well as of the paternal pronucleus This means that we have to pay more attention to the development of male gametes since the imprinting of the paternal genome obviously required for the early embryonic development must occur during male gamete development Despite the fundamental character of sperm development as a cellular differentiation process no coherent concepts for studies of this process exist Many morphological and in particular ultrastructural details of sperm development and sperm structure are known but this knowledge has not been assembled into a consistent picture reflecting the basic features of this differentiation process One of the reasons for the failure to construct such a picture is the fact that also the genetics of sperm development is poorly developed For elaborating concepts of early embryonic development the study of mutants has been and still is indispensable

The Genetic Basis of Male Infertility Ken McElreavey, 2012-11-03 Every year there are new and exciting developments in assisted human reproduction but how much do we really know about the underlying causes of infertility This volume explores recent progress in the understanding of the genetics of spermatogenesis and male infertility Topics include fundamental advances and current problems in the development and function of the testis an outline of clinical findings in male infertility and an overview of the role of the Y chromosome in male fertility Comprehensive critiques of posttranscriptional control during spermatogenesis mammalian meiotic sterility and comparative genetics of human spermatogenesis from the perspective of yeast *Drosophila* and mice provide a global overview of the field

Genetics of Sex Determination R.S. Verma, 1996-04-23 The Genetical Theory of Natural Selection by R A Fisher 1930 dictated that sexual dimorphisms may depend upon a single mendelian factor This could be true for some species but his suggestion could not take off the ground as gender in *Drosophila* is determined by the number of X chromosomes Technical advances in molecular biology have revived the initial thinking of Fisher and dictate that TDF or SRY genes in humans or Tdy in mice are sex determining genes The fortuitous findings of XX males and XY female which are generally termed sex reversal phenomenon are quite bewildering traits that have caused much amazement concerning the pairing mechanisms of the pseudoautosomal regions of human X and Y chromosomes at meiosis These findings have opened new avenues to explore further the genetic basis of sex determination at the single gene level The aim of the fourth volume titled Genetics of Sex Determination is to reflect on the latest advances and future investigative directions encompassing 10 chapters

Commissioned several distinguished scientists all pre eminent authorities in each field to shed their thoughts concisely but epitomise their chapters with an extended bibliography Obviously during the past 60 years the metoric advances are voluminous and to cover every account of genes chromosomes and sex in a single volume format would be a herculean task Therefore a few specific topics are chosen which may be of great interest to scientists and clinicians The seasoned scientists who love to inquire about the role of genes in sex determination should find the original work of these notable contributors very enlightening This volume is intended for advanced students who want to keep abreast as well as for those who indulge in the search for genes of sex determination

Library of Congress Subject Headings Library of Congress, Library of Congress. Subject Cataloging Division, Library of Congress. Office for Subject Cataloging Policy, 2013 *Library of Congress Subject Headings* Library of Congress. Cataloging Policy and Support Office, 2009 Nuclear Structure and Function I.B. Zbarsky, 2012-12-06 This collection of 101 short communications submitted by some of the participants at the 11th Nuclear Workshop held in Suzdal USSR 18-23 September 1989 provides a representative survey of the material presented at the Workshop Articles have been submitted by both those who delivered lectures and those who had poster presentations The order of presentation at the Nuclear Workshop is roughly maintained within this proceedings book but the session titles within the scientific program have not been utilized as discrete subdivisions within the book because of the considerable overlap of subject matter The overall sequence is as follows Genome structure Gene Structure and Expression Nucleolar Genes Structure and Proteins Chromatin and Nuclear Granules Nuclear Matrix and Nuclear Proteins Replication and Transcription and finally Nuclear Envelope and Nuclear Cytoplasmic Transport Several articles on Nuclear Lipids are also included stemming from an evening round table discussion on lipids The third Wilhelm Bernhard Lecture was delivered in Suzdal by Professor Harris Busch who can be seen in the photograph above on the left in the presence of Professor Ilya B Zbarsky President of the organizing committee for the 11th Nuclear Workshop Previous Wilhelm Bernhard lecturers have been Ronald H Reeder in Krakow Poland 1985 and Oscar L Miller Jr in Stevensbeek The Netherlands in 1987

Male Reproductive Function Christina Wang, 2007-05-28 *Male Reproductive Function* gives an up to date review on the physiology and disease processes associated with the male reproductive system The first few chapters describe the regulation of the functions of the testis and the integration of its components germ cells Sertoli cells and Leydig cells This is followed by a description of puberty and aging and the disorders or dysfunction that may be associated with these physiological processes Discussions on the current methods for the diagnosis and treatment of male hypogonadism male infertility and male sexual dysfunction follow with detailed descriptions of types of androgen replacement and the benefits and risks of such treatment The book concludes with the development of male contraception and the possible influence of the environment on the male reproductive system *Male Reproductive Function* represents a conglomeration of the efforts of experts in andrology from all over the world both in basic cellular molecular biology as well as in clinical science and practice This book is suitable for

endocrinologists urologists general internists gynecologists and other students in the field of male reproduction **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 Plant Promoters and Transcription Factors Lutz Nover, 2013-06-29 The control of plant gene expression at the transcriptional level is the main subject of this volume Genetics molecular biology and gene technology have dramatically improved our knowledge of this event The functional analysis of promoters and transcription factors provides more and more insights into the molecular anatomy of initiation complexes assembled from RNA polymerase and the multiplicity of helper and control proteins Formation of specific DNA protein complexes activating or repressing transcription is the crux of developmental or environmental control of gene expression The book presents an up to date critical overview of this rapidly advancing field

Towards Reproductive Certainty: Fertility and Genetics Beyond 1999: The Plenary Proceedings of the 11th World Congress R. Jansen, D. Mortimer, 1999-04-15 This is a forward looking clinical reference of definitive authority on today s headline controversies surrounding in vitro fertilization IVF and reproductive genetics Written by leading experts from medicine education psychology ethics counseling and other disciplines studying fertility and genetics the book contains nearly 70 chapters in seven sections The introductory section deals with biology business morality and society in IVF and reproductive genetics other sections focus on IVF outcomes personal ethics and business biology of the egg sperm and embryo implantation IVF and society and such 21st century topics as space travel and human reproduction the disappearing male and the future of motherhood Includes bibliographic references and index **Oligospermia: Understanding Causes, Treatment Options, and Enhancing Male Fertility** Doctos's Notes, 2025-02-19 Are you struggling with fertility issues due to oligospermia This comprehensive guide offers invaluable insights into understanding and managing low sperm count helping you navigate the journey toward successful conception EXPERT INSIGHTS ON OLIGOSPERMIA CAUSES Gain a clear understanding of the various factors contributing to low sperm count including hormonal imbalances lifestyle choices and environmental influences EFFECTIVE TREATMENT OPTIONS Discover the most up to date medical and surgical interventions available for improving sperm production and enhancing male fertility NUTRITIONAL STRATEGIES FOR FERTILITY Learn how dietary modifications and lifestyle changes can positively impact your reproductive health ASSISTED REPRODUCTIVE TECHNOLOGIES Explore advanced ART methods that can aid couples facing fertility challenges

EMOTIONAL SUPPORT AND COUNSELING Understand the psychological aspects of dealing with infertility and how to seek the right support This book empowers you with the knowledge and tools to take charge of your fertility journey improve your chances of conception and enhance your overall well being Meiosis and Gametogenesis ,1997-11-24 In spite of the fact that the process of meiosis is fundamental to inheritance surprisingly little is understood about how it actually occurs There has recently been a flurry of research activity in this area and this volume summarizes the advances coming from this work All authors are recognized and respected research scientists at the forefront of research in meiosis Of particular interest is the emphasis in this volume on meiosis in the context of gametogenesis in higher eukaryotic organisms backed up by chapters on meiotic mechanisms in other model organisms The focus is on modern molecular and cytological techniques and how these have elucidated fundamental mechanisms of meiosis Authors provide easy access to the literature for those who want to pursue topics in greater depth but reviews are comprehensive so that this book may become a standard reference Key Features Comprehensive reviews that taken together provide up to date coverage of a rapidly moving field Features new and unpublished information Integrates research in diverse organisms to present an overview of common threads in mechanisms of meiosis Includes thoughtful consideration of areas for future investigation **Reproduction in Farm Animals** E. S. E. Hafez,B. Hafez,2013-05-13 When you re looking for a comprehensive and reliable text on large animal reproduction look no further the seventh edition of this classic text is geared for the undergraduate student in Agricultural Sciences and Veterinary Medicine In response to reader feedback Dr Hafez has streamlined and edited the entire text to remove all repetitious and nonessential material That means you ll learn more in fewer pages Plus the seventh editing is filled with features that help you grasp the concepts of reproduction in farm animals so you ll perform better on exams and in practice condensed and simplified tables so they re easier to consult an easy to scan glossary at the end of the book an expanded appendix which includes graphic illustrations of assisted reproduction technology Plus you ll find valuable NEW COVERAGE on all these topics Equine Reproduction expanded information reflecting today s knowledge Llamas NEW CHAPTER Micromanipulation of Gametes and In Vitro Fertilization NEW CHAPTER Reach for the text that s revised with the undergraduate in mind the seventh edition of Hafez s Reproduction in Farm Animals **Results and Problems in Cell Differentiation** W. Beermann,1968 **Research Awards Index** ,1983 Genetics of Endocrine Diseases and Syndromes Peter Igaz,Attila Patócs,2019-10-06 This book provides a comprehensive overview of the genetic basis underlying endocrine diseases It covers both the molecular and clinical consequences of these genetic defects as well as the relevance for clinical care highlighting issues of genetic counseling Several endocrine diseases have a genetic background and contemporary research in the field plays a crucial role in the clinical care of endocrine diseases In recent years there have been major developments in our understanding of the genetic basis of endocrine diseases Several novel genes and mutations predisposing individuals to monogenic endocrine diseases have been discovered and with the advent of next generation

sequencing a huge amount of new data has become available Further novel molecular mechanisms such as genomic imprinting have been implicated in the pathogenesis of endocrine diseases A better understanding of the genetic background of these diseases is relevant not only from the research perspective but also in terms of clinical care As such this book is an essential read for both researchers and clinicians working in the field

Advances in Mutagenesis Research Günter Obe,2012-12-06 The new field of applied genetic research genetic toxicology and mutation research investigates the mutagenicity and cancerogenicity of chemicals and other agents Permanent changes in genes and chromosomes or genome mutations can be induced by a plethora of agents including ionizing and nonionizing radiations chemicals and viruses Mutagenesis research has two aims 1 to understand the molecular mechanisms leading to mutations and 2 to prevent a thoughtless introduction of mutagenic agents into our environment Both aspects namely basic and applied will be treated in the new series Advances in Mutagenesis Research

Varicocele and Male Infertility Sandro C Esteves,Chak-Lam Cho,Ahmad Majzoub,Ashok Agarwal,2019-09-11 This unique textbook the first of its kind presents a thoughtful and comprehensive discussion of the significance of varicocele and its impact on male fertility This hot topic is covered from a multitude of angles in seven thematic sections origin and pathophysiology clinical evaluation medical and surgical therapy controversies pro and con debates and clinical case scenarios The scope of varicocele includes basic and transitional research genetics diagnostic testing with conventional and advanced molecular biology approaches hormonal control interventional therapy and assisted reproductive technology ART Repair of varicocele which can be carried out by various methods not only alleviates oxidative stress associated infertility but also prevents and protects against the progressive character of varicocele and its consequent upregulations of systemic oxidative stress Even with the advances in the understanding of this intriguing disease and consensus on some areas such as diagnosis and pathophysiology substantial controversy still exists in particular concerning the benefits of treatment and to whom treatment should be offered Additional chapters discuss in depth such controversies surrounding the role of varicocele in male infertility and present clinical case scenarios dealing with management of subclinical and clinical varicocele A series of editorial comments is provided by the editors at the end of selected chapters containing an objective and concise summary of the information from each chapter In addition chapters open up with key points for quick references and conclude with multiple choice questions and answers for immediate review and retention of the rich content Generously illustrated Varicocele and Male Infertility A Complete Guide represents an invaluable tool for medical students in reproductive medicine as well as researchers and clinicians working in the field of infertility e g urologists gynecologists reproductive endocrinologists and embryologists and is comprised of chapters written by leading and internationally recognized clinicians and scientists with expertise in varicocele skillfully edited by leaders in the field

Genetics of Human Infertility P. H. Vogt,2017-09-12 Infertility affects more than one in ten couples worldwide and is related to highly heterogeneous pathologies sometimes only discernible in the germ line Its

complex etiology often but not always includes genetic factors besides anatomical defects immunological interference and environmental aspects Nearly 30% of infertility cases are probably caused only by genetic defects Thereby experimental animal knockout models convincingly show that infertility can be caused by single or multiple gene defects Translating those basic research findings into clinical studies is challenging leaving genetic causes for the vast majority of infertility patients unexplained Nevertheless a large number of candidate genes have been revealed by sophisticated molecular methods This book provides a comprehensive overview on the subject of infertility written by the leading authorities in this field It covers topics including basic biological cytological and molecular studies as well as common and uncommon syndromes It is a must read for human geneticists endocrinologists epidemiologists zoologists and counsellors in human genetics infertility and assisted reproduction *Index Medicus* ,2003 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings

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