Advances in Anatomy Embryology and Cell Biology 181

R. Brehm · K. Steger

# Regulation of Sertoli Cell and Germ Cell Differentiation



# **Regulation Of Sertoli Cell And Germ Cell Differentiation**

**Christian G. Meyer** 

#### **Regulation Of Sertoli Cell And Germ Cell Differentiation:**

Regulation of Sertoli Cell and Germ Cell Differentiation R. Brehm, Klaus Steger, 2005-12-12 Unwanted childlessness affects approximately one in six couples worldwide though the exact proportion of the predominant cause of the problem remains controversial according to the World Health Organization WHO in nearly 40% of cases the cause can be attributed to the female in 20% to the male in 25% to both and in 15% the cause remains unknown Based on these gures the cidence of male factor infertility in the general population is approximately 7% The majority of these men approximately 30% experience irreversible idiopathic infertility and cannot father children without some form of medical intervention Male factor infertility in addition may be caused by testicular germ cell cancer which is known to represent the most common cancer among young men aged 15 to 35 years in Western industrialized countries The number of affected men has increased dramatically over the past 50 years There is now growing evidence that human testicular germ cell cancer originates from fetal germ cells exhibiting an aberrant programme of gene expression and tumour progression may be favoured by an aberrant Sertoli cell germ cell communication Regulation of Sertoli Cell and Germ Cell Differentiation R. Brehm.Klaus Steger, 2009-09-02 Unwanted childlessness affects approximately one in six couples worldwide though the exact proportion of the predominant cause of the problem remains controversial according to the World Health Organization WHO in nearly 40% of cases the cause can be attributed to the female in 20% to the male in 25% to both and in 15% the cause remains unknown Based on these gures the cidence of male factor infertility in the general population is approximately 7% The majority of these men approximately 30% experience irreversible idiopathic infertility and cannot father children without some form of medical intervention Male factor infertility in addition may be caused by testicular germ cell cancer which is known to represent the most common cancer among young men aged 15 to 35 years in Western industrialized countries The number of affected men has increased dramatically over the past 50 years There is now growing evidence that human testicular germ cell cancer originates from fetal germ cells exhibiting an aberrant programme of gene expression and tumour progression may be favoured by an aberrant Sertoli cell germ cell communication Knobil and Neill's Physiology of Reproduction Ernst Knobil, 2006 The 3rd edition the first new one in ten years includes coverage of molecular levels of detail arising from the last decade s explosion of information at this level of organismic organization There are 5 new Associate Editors and about 2 3 of the chapters have new authors Chapters prepared by return authors are extensively revised Several new chapters have been added on the topic of pregnancy reflecting the vigorous investigation of this topic during the last decade The information covered includes both human and experimental animals basic principels are sought and information at the organismic and molecular levels are presented The leading comprehensive work on the physiology of reproduction Edited and authored by the world's leading scientists in the field Is a synthesis of the molecular cellular and organismic levels of organization Bibliographics of chapters are extensive and cover all the relevant literature **Endocrine and** 

Paracrine Regulation of Spermatogenesis - A Collection of Up to Date Research Contributions on Testis Formation and Function Erwin Goldberg, Barry Zirkin, Vassilios Papadopoulos, Polina V. Lishko, 2022-08-29 Hormonal Regulation of Spermatogenesis Frank French, 2012-12-06 The conference represented by this book was made possible by support from NICHD and a planning committee headed by Dr Richard Sherins Two general areas of research are included the first encompasses steroid hormone synthesis metabolism and transport in the testis and the second relates to hormonal regulation of the seminiferous tubule with special emphasis on the control of Sertoli cell function. In addition there are sections on the purification of unique testicular proteins and morpho logical studies with particular emphasis on the Sertoli cell We would like to express our sincere thanks to Dr Sherins and his staff at NICHD and to all of the people at the University of North Carolina who participated in the Conference arrangements to Dr Judson J Van Wyk Chief of the Pediatric Endocrinology Division and Dr H Stanley Bennett Director of the Laboratories for Reproductive Biology Our very special thanks to Mrs Carolyn Jaros for her help in handling the local arrangements Mrs Martha Byrd and Mrs Linda Rollins typed the manuscripts Miss Leslie Wells and Mr Albert Smith kindly assisted in proof reading and Dr Elizabeth Wilson gave much help with the final editing process To all of these people we are most grateful Knobil and Neill's Physiology of Reproduction Tony M. Plant, Anthony J. Zeleznik, 2014-11-15 The Fourth Edition of Knobil Neill continues to serve as a reference aid for research to provide the historical context to current research and most importantly as an aid for graduate teaching on a broad range of topics in human and comparative reproduction In the decade since the publication of the last edition the study of reproductive physiology has undergone monumental changes Chief among these advances are in the areas of stem cell development signaling pathways the role of inflammation in the regulatory processes in the various tissues and the integration of new animal models which have led to a greater understanding of human disease The new edition synthesizes all of this new information at the molecular cellular and organismal levels of organization and present modern physiology a more understandable and comparative context The Fourth Edition has been extensively revised reflecting new fundamental advancements in this rapidly advancing field Provides a common language for researchers across the fields of physiology endocrinology and biology to discuss their understanding of reproduction Saves academic researchers time in quickly accessing the very latest details on reproductive physiology as opposed to searching through thousands of journal articles Systemic Regulation of Organ Homeostasis and Implications of Hormones and Immunity Premendu Prakash Mathur, Rajakumar Anbazhagan, Raghuveer Kavarthapu, Hridayesh Prakash, Tatjana S. Kostic, 2021-10-29 Biology and Regulation of Blood-Tissue Barriers C. Yan Cheng, 2014-01-25 This book was written by many outstanding investigators who have spent decades to study different aspects of blood tissue barrier function They have summarized some of the latest and fascinating development in their fields of research including the blood brain barrier the blood retinal barrier the gut barrier the blood biliary barrier the blood follicle barrier the blood epididymis barrier the blood testis barrier the tight

junction barrier in general as well as barriers in the female reproductive tract Included are also chapters that focus on topics that are physiologically applicable to all blood tissue barriers Many of these chapters also include information on specific human diseases such as pathological changes of the gut barrier that cause bowel disorders resulting from inflammation of the epithelial lining in the intestine and infertility in men as a result of disruption of the blood epididymal and or blood testis barriers and on new therapeutic approaches e g drug delivery across the blood brain and the blood retinal barriers

Molecular Biology of the Male Reproductive System David de Kretser, 2012-12-02 Written by experts in their respective fields this book reviews the expanding knowledge concerning the mechanisms regulating male reproduction at the molecular and cellular levels It covers the development of the testes and regulatory controls for spermatogenesis and steroidogenesis and it considers aspects of Sertoli cell function Areas of emphasis include communication between the various cell types involved in reproduction by hormone and growth factors and the mechanisms by which these factors regulate gene expression A number of mammalian systems including humans are covered. The carefully selected authors provide a clear synopsis of the concepts in each area as well as the latest references enabling the reader to investigate the topic further This book is of interest to those seeking an understanding of the regulatory mechanisms in male reproduction and is written for the graduate and postgraduate levels Provides up to date reviews of the molecular and cellular biology of male reproduction Includes chapters on the developmental biology of the testes Links conventional hormonal control of testicular function with the evolving role of growth factors and proto oncogenes **Encyclopedia of Reproduction**, 2018-06-29 Encyclopedia of Reproduction Second Edition Six Volume Set comprehensively reviews biology and abnormalities also covering the most common diseases in humans such as prostate and breast cancer as well as normal developmental biology including embryogenesis gestation birth and puberty Each article provides a comprehensive overview of the selected topic to inform a broad spectrum of readers from advanced undergraduate students to research professionals Chapters also explore the latest advances in cloning stem cells endocrinology clinical reproductive medicine and genomics As reproductive health is a fundamental component of an individual s overall health status and a central determinant of quality of life this book provides the most extensive and authoritative reference within the field Provides a one stop shop for information on reproduction that is not available elsewhere Includes extensive coverage of the full range of topics from basic to clinical considerations including evolutionary advances in molecular cellular developmental and clinical sciences Includes multimedia and interactive teaching tools such as downloadable PowerPoint slides video content and interactive elements such as the Virtual Microscope <u>Proteomics of Spermatogenesis</u> G. S. Gupta, 2006-07-02 Recent developments of experimental techniques in cellular and molecular biology have made it possible to understand the molecular biology of male gametogenesis in greater detail This book focuses on the description of specialized proteins which are dominantly and or specifically expressed in germ cells and localized in spermatozoa There is an urgent need to classify proteins of spermatogenic cells with a view of their

functions and their applications in the regulation of fertility and in understanding infertility. The understanding of structural properties of male germ cell specific proteins can offer vulnerable points for targeted intervention in testis without generalized effects on stages of spermatogenesis Besides targeted action in male germ cells sperm specific proteins and polypeptides may also offer potential application in the development of a contraceptive vaccine hypothalamic-pituitary-gonadal axis for the control of spermatogenesis and sperm quality in vertebrates Gilda Cobellis, SILVIA FASANO, Riccardo Pierantoni, Rosaria Meccariello, 2014-12-01 Spermatogenesis is a process highly conserved throughout vertebrate species and is mainly under hypothalamic pituitary control It occurs in the testis in a stepwise fashion so that committed spermatogonia develop into spermatocytes and enter meiosis to produce round spermatids These undergo a morphological transformation spermiogenesis into mature spermatids i e spermatozoa which are differentially released from Sertoli cells spermiation depending on the species In mammals further transformations are necessary to form mature spermatozoa suitable for fertilization Gonadotropins mainly responsive to gonadotropin releasing hormone control spermatogenesis through specific receptors located at the gonadal level However besides the endocrine route the chemical mediators may also act locally in the gonad Indeed it is documented that testis physiology including steroidogenesis and spermatogenesis does not fully account for traditional endocrine control but an intragonadal network of autocrine and or paracrine regulators also exists whose activity via cell to cell communication regulates germ cell progression and development of qualitatively mature spermatozoa Of note a number of testicular modulators such as gonadotropin releasing hormone Kiss peptin endocannabinoids has been early isolated in the brain and latest in the gonads To fully understand precise mechanisms underlying the functional interaction of this intricate network needless to say it is crucially required to have detailed information about modulators and target cells Through synergy between the respective specializations of all the authors this topic reviewed emerging knowledge about neuroendocrine and local mediators controlling germ cell progression and maturation **Biology of Fertilization V2** Charles Metz, 2012-12-02 Biology of Fertilization Volume 2 Biology of the Sperm is the second in a three volume series that brings together various lines of research about reproduction in general and fertilization in particular It is devoted to spermatogenesis sperm physiology and the initial interactions of sperm with egg components The book is organized into three parts Part I on spermatogenesis and sperm physiology includes studies on the evolution of the sperm cell regulatory mechanisms sperm antigen differentiation and maturation of sperm in the reproductive tracts in mammals physicochemical mechanisms of the acrosome filament extrusion process and enzymes associated with sperm cell function Part II deals with chemotaxis in microorganisms bacteria and slime molds Part III on gamete recognition and binding includes studies on identifying isolating and characterizing specific sperm and egg surface components involved in sperm egg interaction fertilization in the alga Fucus fertilization in insects and the role of lysins in fertilization Yen & Jaffe's Reproductive Endocrinology - E-Book Jerome F. Strauss, Robert L. Barbieri, Anuja

Dokras, Carmen J Williams, S. Zev Williams, 2023-03-24 For over 40 years Yen Recurrent Pregnancy Loss Uterus Transplantation Mitochondrial Transplantation and Gene Editing and Germs Cells Developed In Vitro Provides extensively revised information on contemporary practices in assisted reproduction fertility preservation and ovulation induction Provides an online video library that highlights surgical procedures diagnostic imaging and functional ultrasound imaging Adds three new members to the exceptional editorial team Drs Anuja Dokras Carmen J Williams and Zev Williams Features full color high quality illustrations that clearly depict basic anatomic structures endocrine processes and cell function and dysfunction Includes bulleted lists under major headings in each chapter for quick at a glance summaries of every section Lists Top References at the end of each chapter that distill the most important references for research underpinnings to complement the complete online reference list An eBook version is included with purchase The eBook allows you to access all of the text figures and references with the ability to search customize your content make notes and highlights and have content read aloud Toxicology and Risk Assessment Anna M. Fan, George Alexeeff, Elaine Khan, 2015-03-04 The presence of chemicals in our environment is a subject of intense interest owing to the many potential adverse health effects to humans following exposure to these chemicals The principles and practices of risk assessment are used to assess the associated health risks to provide a scientific and health basis for guidance or regulatory standards **Biomedical Index to** PHS-supported Research: pt. A. Subject access A-H ,1992 **RNA Processing** Gene W. Yeo, 2016-06-02 Ribonucleic acid RNA binding proteins currently number in the thousands and defects in their function are at the heart of diseases such as cancer and neurodegeneration RNA binding proteins have become implicated in the intricate control of surprisingly diverse biological settings such as circadian rhythm stem cell self renewal oncogenesis and germ cell development This book surveys a range of genome wide and systems approaches to studying RNA binding proteins the importance of RNA binding proteins in development cancer and circadian rhythm **Research Grants Index** National Institutes of Health (U.S.). Division of Research Grants, 1971 **Urologic Principles and Practice** Christopher R. Chapple, William D. Steers, Christopher P. Evans, 2020-01-02 This book fulfils the need for a general urology text primarily urologists in training It has a novel format by having a clinical chapter always preceded by a scientific foundation chapter The scientific chapter is geared toward answering questions for boards and understanding pathophysiology is concise and relevant The clinical chapter is written around evidence based medicine and in how to format with algorithms with reference to AUA EAU Intercellular Signaling in Development and Disease Edward A. Dennis, Ralph A. quidelines well illustrated Bradshaw, 2011-04-05 Required reading for anyone involved in cell signaling research with articles written and edited by experts in the field This title covers disease states such as lymphoid leukemia breast cancer pulmonary fibrosis systemic sclerosis and inflammatory bowel disease along with up to date research on signaling systems and mutations intranscription factors that provide new targets for treating disease Articles written and edited by experts in the field Thematic volume

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#### Table of Contents Regulation Of Sertoli Cell And Germ Cell Differentiation

- 1. Understanding the eBook Regulation Of Sertoli Cell And Germ Cell Differentiation
  - The Rise of Digital Reading Regulation Of Sertoli Cell And Germ Cell Differentiation
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Regulation Of Sertoli Cell And Germ Cell Differentiation
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Regulation Of Sertoli Cell And Germ Cell Differentiation
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Regulation Of Sertoli Cell And Germ Cell Differentiation
  - Personalized Recommendations
  - Regulation Of Sertoli Cell And Germ Cell Differentiation User Reviews and Ratings
  - Regulation Of Sertoli Cell And Germ Cell Differentiation and Bestseller Lists
- 5. Accessing Regulation Of Sertoli Cell And Germ Cell Differentiation Free and Paid eBooks
  - Regulation Of Sertoli Cell And Germ Cell Differentiation Public Domain eBooks
  - Regulation Of Sertoli Cell And Germ Cell Differentiation eBook Subscription Services
  - Regulation Of Sertoli Cell And Germ Cell Differentiation Budget-Friendly Options
- 6. Navigating Regulation Of Sertoli Cell And Germ Cell Differentiation eBook Formats
  - o ePub, PDF, MOBI, and More
  - Regulation Of Sertoli Cell And Germ Cell Differentiation Compatibility with Devices
  - Regulation Of Sertoli Cell And Germ Cell Differentiation Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - $\circ$  Adjustable Fonts and Text Sizes of Regulation Of Sertoli Cell And Germ Cell Differentiation
  - Highlighting and Note-Taking Regulation Of Sertoli Cell And Germ Cell Differentiation
  - Interactive Elements Regulation Of Sertoli Cell And Germ Cell Differentiation

- 8. Staying Engaged with Regulation Of Sertoli Cell And Germ Cell Differentiation
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Regulation Of Sertoli Cell And Germ Cell Differentiation
- 9. Balancing eBooks and Physical Books Regulation Of Sertoli Cell And Germ Cell Differentiation
  - Benefits of a Digital Library
  - o Creating a Diverse Reading Collection Regulation Of Sertoli Cell And Germ Cell Differentiation
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Regulation Of Sertoli Cell And Germ Cell Differentiation
  - $\circ$  Setting Reading Goals Regulation Of Sertoli Cell And Germ Cell Differentiation
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Regulation Of Sertoli Cell And Germ Cell Differentiation
  - o Fact-Checking eBook Content of Regulation Of Sertoli Cell And Germ Cell Differentiation
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - $\circ \ \ Integration \ of \ Multimedia \ Elements$
  - Interactive and Gamified eBooks

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