

Ernst Schering Research Foundation  
Workshop Supplement 3

TESTICULAR FUNCTION:  
FROM GENE  
EXPRESSION TO  
GENETIC MANIPULATION

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# Testicular Function From Gene Expression To Genetic Manipulation

**Michael Seilmaier**



## **Testicular Function From Gene Expression To Genetic Manipulation:**

**Testicular Function: From Gene Expression to Genetic Manipulation** Mario Stefanini, Carla Boitani, Michaela Galdieri, Raffaele Geremia, Fioretta Palombi, 2013-06-29 This volume contains the text of the plenary lectures given by internationally recognized experts in the field of gametogenesis and endocrinology at the 10th European Workshop on Molecular and Cellular Endocrinology of the Testis Topics include spermatogonial transplantation germ stem cell biology regulation of meiosis and spermiogenesis growth factors cell signaling and transduction steroidogenesis androgen regulated genes sperm activation and sperm factors active at fertilization The present volume pays particular attention to the use of genetically manipulated animal models in the study of the regulation of spermatogenesis and testicular functions

**Testicular Function**, 1998 *Testicular Tangrams* F.F.G. Rommerts, K.J. Teerds, 2013-06-29 During the past two decades research on the testis has created a vast number of publications New techniques such as cell and gene cloning germ cell manipulation and transplantation as well as gene expression have surpassed the classical approaches that involved studies on receptor activation and endocrine paracrine and autocrine regulatory mechanisms Due to the expansion of this field of research it has become increasingly difficult to integrate the large number of observations and relate them to the physiology and pathophysiology of the testis More emphasis must therefore be put on the integration of isolated findings and the construction of the total picture In order to stimulate this specific mental activity we have named this book Testicular Tangram We hope that the chapters in this book will be used as pieces of the testicular puzzle and that the reader enjoys composing new shapes The chapters of this book are representative of the plenary lectures presented at the 10th European Workshop on Molecular and Cellular Endocrinology of the Testis held in Doorwerth The Netherlands from April 6 to 10 2002 Publication of this book has been made possible by the generous support of the Ernst Schering Research Foundation We would also like to thank the distinguished scientists who have provided us with their excellent manuscripts well before the start of the Workshop We acknowledge the help of Dr U F Habenicht Dr M

**Testis, Epididymis and Technologies in the Year 2000** B. Jegou, C. Pineau, J. Saez, 2013-06-29 A number of chapters present the most novel research on testicular and epididymal functions or on more general fields of hormone action and molecular cell biology as it is now a tradition However exceptionally the book also contains several chapters dealing with the Approaches and Tools in the Third Millennium The unusual inclusion of technologies as such in the 2000 edition of the workshop was an absolute necessity as these technologies are revolutionizing the fields of biology and medicine and in many instances how to do research This volume gives the scientific community essential information about the very latest technical developments and their potential for future progress *Clinical Andrology* Lars Björndahl, Aleksander Giwercman, Herman Tournaye, Wolfgang Weidner, 2010-06-03 A major new international reference work on andrology from the EAU Section of Andrological Urology covering such issues as male infertility erectile dysfunction late onset hypogonadism and reproductive cancers that engages

with contemporary concern for evidence based practice minimizing interventions and promoting male reproductive health

New Mechanisms for Tissue-Selective Estrogen-Free Contraception H.B. Croxatto, R. Schürmann, U. Fuhrmann, I. Schellschmidt, 2007-01-19 Combined oral contraceptives are the most convenient and accepted method of hormonal contraception. Nevertheless, the medical community and consumers constantly demand innovation, additional benefits during use, and lower hormonal load despite the high safety profile of available products. At the Ernst Schering Research Foundation Workshop 52, new perspectives and mechanisms for tissue-selective estrogen-free contraception were discussed. The aim of the workshop was to bring together experts in the field of molecular and pharmacodynamic action of progestins with clinicians and medical experts to discuss potential medical endpoints, physiological reactions, and bio markers useful in describing the tissue selectivity and the contraceptive action of new progestins in different target organs. A major factor for successful realization of these new concepts is a deeper understanding of local pharmacological responses to progestins in general and to new progestins in particular.

**Neuroinflammation in Stroke** Ulrich Dirnagl, Bernd Elger, 2004-01-14 The successful treatment of acute stroke remains one of the major challenges in clinical medicine. Over the last decades, the understanding of stroke pathophysiology has greatly improved, while the therapeutic options in stroke therapy remain very limited. Today, hyperacute mechanisms of damage such as excitotoxicity can be discriminated from delayed ones such as inflammation and apoptosis. Targeting of inflammation has already been successfully applied in various stroke models, but translation into a clinically efficacious strategy has not been achieved so far. In this book, leading experts in basic cerebrovascular research as well as stroke treatment review the current evidence for and against an important role for inflammation in stroke and explore the potential of treating or modulating inflammation in stroke therapy.

**Chronic Viral and Inflammatory Cardiomyopathy** Heinz-Peter Schultheiss, Joachim-Friedrich Kapp, Georg Grötzbach, 2007-01-19 The interconnectedness of genetics and susceptibility to disease, viral and non-viral inflammation, and the role of immunity and the development of autoimmunity is a fascinating and much-discussed topic in cardiomyopathy. This publication constitutes the outcome of an ESRF meeting held together with the German Research Foundation. Clinical researchers, immunologists, virologists, and molecular biologists provide the latest findings in their fields, advancing our understanding of what causes chronic viral and inflammatory cardiomyopathy, why it affects a subset of individuals while sparing the majority, how we can develop better therapies, and whether the disease can be prevented. Special emphasis is placed on the role of viruses in the aetiology and pathogenesis of cardiomyopathy. The editors are convinced that the broad spectrum covered by this state-of-the-art publication will be of exceptional value to its readers.

**The Promises and Challenges of Regenerative Medicine** John Morser, S.-I. Nishikawa, 2007-01-19 Presents the advances in stem cell research. This book discusses the analysis and use of stem cells in basic biology and their application in clinical practice.

The Histone Code and Beyond Shelley L. Berger, O. Nakanishi, Bernhard Haendler, 2007-01-19 Methylation of DNA at cytosine residues as well as post-translational

modifications of histones including phosphorylation acetylation methylation and ubiquitylation contribute to the epigenetic information carried by chromatin These changes play an important role in the regulation of gene expression by modulating the access of regulatory factors to the DNA The use of a combination of biochemical genetic and structural approaches has allowed demonstration of the role of chromatin structure in transcriptional control The structure of nucleosomes has been elucidated and enzymes involved in DNA or histone modifications have been extensively characterized Since deregulation of epigenetic marks has been reported in many cancers a better understanding of the underlying molecular mechanisms bears the promise that new drug targets may soon be found The newest developments in this quickly developing field are presented in this book      *Opportunities and Challenges of the Therapies Targeting CNS Regeneration* H.D. Perez,B. Mitrovic,A. Baron Van Evercooren,2005-05-06 Today combined oral contraceptives are the most convenient and accepted way of hormonal contraception Nevertheless there is a constant demand in the medical community and consumer market for innovation additional benefits during use and lower hormonal load despite the high safety profile of available products At the Ernst Schering Research Foundation Workshop 52 new perspectives and mechanisms for tissue selective estrogen free contraception were discussed The aim of the workshop was to bring together experts in the field of molecular and pharmacodynamic action of progestins with clinicians and medical experts to discuss potential medical endpoints physiological reactions and bio marker useful to describe the tissue selectivity and the contraceptive action of new progestins in different target organs A major success factor for the realization of these new concepts is a deeper understanding of local pharmacological responses to progestins in general and to new progestins in particular TOC New Strategies for CNS Repair Heterogeneity of Multiple Sclerosis Implications for Therapy Targeting Regeneration The Neuroprotective Effect of Inflammation Implications for the Therapy of Multiple Sclerosis Fibroblast Growth Factors in Oligodendrocyte Physiology and Myelin Repair White Matter Progenitor Cells Reside in an Oligodendrogenic Niche At the Interface of the Immune System and the Nervous System How Neuroinflammation Modulates the Fate of Neural Progenitors in vivo Remyelination and Restoration of Axonal Function by Glial Cell Transplantation Gene and Stem Cell Therapy for Autoimmune Demyelination Novel Gene Therapeutic Strategies for Neurodegenerative Diseases Measuring Injury and Repair of Myelin and Neurons in Multiple Sclerosis The Role of Polypeptide Growth Factors in Recovery from Stroke      *Male Infertility* Sijo J. Parekattil,Sandro C. Esteves,Ashok Agarwal,2020-01-24 A groundbreaking contribution to the literature now in its revised and expanded second edition this textbook offers a comprehensive review of diagnostic and treatment techniques for male infertility This state of the art evidence based textbook incorporates new multidisciplinary and complementary medicine approaches to create a first of its kind guide to treatment strategies for male infertility and beyond While this new edition is primarily designed as a reference for students and residents in reproductive medicine and andrology it will be equally useful as well for professionals in urology reproductive endocrinology embryology and research fields who are interested in the role

that antioxidants play in male infertility World renowned experts in these areas have been selected to participate in this work Careful selection of the highest quality content will span the whole range of topics in the area of male infertility providing a complete review of well established and current diagnostic and treatment techniques for male infertility The incorporation of 20 new chapters will enhance the book's appeal by including the most recent advances brought to the male infertility arena Additionally this edition incorporates new features including bulleted key points review criteria and select video clips demonstrating some of the most fascinating male infertility treatment modalities A dedicated new section on current guidelines on male infertility will enlighten readers on how to most optimally manage male infertility clinical scenarios Covering all aspects of diagnosis and management ART lifestyle factors and associated conditions for male infertility Male Infertility Contemporary Clinical Approaches Andrology ART and Antioxidants will be a readily accessible high quality reference for medical students and residents and will be of significant value to professionals working in the various fields treating this condition as well

#### **Interferon: The Dawn of Recombinant Protein Drugs** J. Lindenmann, W.-D.

Schleuning, 2013-06-29 Forty years of Interferon I wish to dedicate this short introduction to the memory of Alick Isaacs 1921 1967 and to that of Sir Christopher Andrewes 1896 1988 Let us go back more than 40 years In 1956 Isaacs was in charge of the Woddd Influenza Centre Andrewes was head of the division of bacteriology and virology and deputy director of the National Institute for Medical Research in London When researchers are faced with a seemingly new phenomenon explanations are easy to come by These explanations fall into two broad categories the phenomenon in question is either due to something or to the lack of something I apologize for the primitive way in which I express this but I am going to give three examples scattered over 100 years of what I mean First example in 1880 the great French microbiologist Louis Pasteur was involved in work on chicken cholera He was struck by the following observation if a suitable chicken broth was inoculated with the bacterium the organism grew profusely and the liquid became turbid If he now freed the fluid by sedimentation or filtration from the bulk of the organisms and re inoculated it with the same bacterium no growth occurred

**Chemical Genomics** Stefan Jaroch, Hilmar Weinmann, 2007-05-26 Chemical genomics is a highly interdisciplinary and very exciting field of research both in academics and in the life sciences industry The Ernst Schering Research Foundation Workshop 58 was organized to bring together scientific leaders in the field to discuss the implications of chemical genomics for drug discovery Various aspects of the interface between chemistry and biology are covered in this volume such as chemogenomics efforts in the pharmaceutical industry diversity oriented synthesis chemogenomic approaches to the study of cell function screening technologies and natural products as tools in chemical biology

#### **Small Molecule – Protein Interactions**

Herbert Waldmann, Marcus Koppitz, 2003-03-07 Based on the international workshop on Small Molecule Protein Interactions held in Berlin April 24 26 2002 researchers from industry and academic laboratories describe novel and efficient ways selecting promising new drug targets and developing small molecule inhibitors against them The structure of the book

corresponds to the different aspects of the drug discovery process All chapters are written by leading experts in the field who present and discuss the most recent state of the art tools and techniques for the development of novel drugs The value of the book lies in surveying and summarizing the approaches taken by different companies and institutions giving the reader a balanced view on the use of the latest techniques on the one hand and experience based assistance in selecting appropriate tools for their own work on the other hand

Androgen-Induced Activation of Sterol Regulatory Element-Binding Proteins (SREBPs) and Enhanced Lipogenesis in Tumor Cells Hannelore Heemers,2003-12 This is a Ph D dissertation Androgens are

male sex hormones produced by the testes and to a lesser extent by the adrenals Apart from their essential role in the development of the male phenotype androgens are absolutely required for the maintenance of *From Morphological Imaging to Molecular Targeting* Markus Schwaiger,Ludger Dinkelborg,Hermann Schweinfurth,2004-06-16 The current progress in molecular medicine allows the identification of a plethora of new and often human specific drug targets An early in vivo validation of specific ligands binding to these targets in humans is needed to assess their potential for targeted imaging and radiotherapy Radiopharmaceuticals are uniquely suitable for such target validation studies The purpose of the Ernst Schering Research Foundation Workshop 48 was to offer a forum for an open exchange on the state of the art in the early development of such radiopharmaceuticals Experts from academia industry and regulatory authorities provided contributions covering the identification of targets the necessary preclinical studies on the safety of ligands as well as their validation in human clinical trials

**Leucocyte Trafficking** A. Hamann,Khusru Asadullah,A. Schottelius,2013-06-29 An essential component of inflammation is the migration of circulating leukocytes from blood into tissues This process is characterized by a multistep paradigm of sequential cell adhesion and activation events that lead to the extravasation of specific leukocyte subsets to different tissues in health and disease The first step of leukocyte extravasation the rolling of leukocytes is primarily mediated by the interactions of selectins and their ligands It has recently become evident that fucosyltransferases are crucial for selectin ligand synthesis inflammation and skin homing This book provides an in depth overview of the mechanisms of leukocyte trafficking and of the molecular mechanisms of selectin selectin ligand interactions and discusses options for pharmacological intervention to treat inflammatory diseases

**The Role of Natural Products in Drug Discovery** J. Mulzer,R. Bohlmann,2013-04-17 Natural Products have been important sources of useful drugs from prehistoric times to the present This book gives an overview about this field and provides important recent contributions to the discovery of new drugs generated by research on natural products Total synthesis of natural products with interesting biological activities is paving the way for the preparation of new and improved analogs The methods of combinatorial chemistry permit the selection of the best drug from a large number of candidates Beyond synthesis and evaluation of organic molecules a number of new bioorganic methods are coming to the fore and will be discussed in this issue of the Ernst Schering Research Foundation workshop proceedings

**PET Chemistry** P.A. Schubiger,L. Lehmann,M. Friebe,2007-01-19

Personalized medicine employing patient based tailor made therapeutic drugs is taking over treatment paradigms in a variety of fields in oncology and the central nervous system. The success of such therapies is mainly dependent on efficacious therapeutic drugs and a selective imaging probe for identification of potential responders as well as therapy monitoring for an early benefit assessment. Molecular imaging (MI) is based on the selective and specific interaction of a molecular probe with a biological target which is visualized through nuclear magnetic resonance, near infrared or other methods. Therefore it is the method of choice for patient selection and therapy monitoring as well as for specific endpoint monitoring in modern drug development. PET (positron emitting tomography) a nuclear medical imaging modality is ideally suited to produce three dimensional images of various targets or processes. The rapidly increasing demand for highly selective probes for MI strongly pushes the development of new PET tracers and PET chemistry. PET chemistry can be defined as the study of positron emitting compounds regarding their synthesis, structure, composition, reactivity, nuclear properties and processes and their properties in natural and natural environments. In practice PET chemistry is strongly influenced by the unique properties of the radioisotopes used e.g. half life, chemical reactivity etc and integrates scientific aspects of nuclear, organic, inorganic and biochemistry.



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