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Editors

Immune Infertility



The Impact of
Immune Reactions on
Human Infertility

 Springer

Immune Infertility The Impact Of Immune Reactions On Human Infertility

M. C. Lucy, J. L. Pate, M. F. Smith, T.E. Spencer



Immune Infertility The Impact Of Immune Reactions On Human Infertility:

Immune Infertility Walter K.H. Krause, Rajesh K. Naz, 2016-11-02 This book offers comprehensive coverage of both basic and clinical aspects of immune reactions responsible for infertility. It has four sections focusing on Sperm antigens, Antisperm antibodies, ASAs, Clinical impact of ASAs, and Immune contraception, and includes contributions from leading experts in these fields. This new edition of the book offers a comprehensive update that reflects the very significant advances in reproductive immunology that have been achieved over the past five years, especially related to the sperm proteome, sperm-egg binding, fusion proteins, gene knockout studies, and immunocontraception. Reproductive immunology continues to be a fast-growing discipline in which new knowledge is emerging almost every day. **Immune Infertility** Walter K.H. Krause, Rajesh K. Naz, 2009-08-17

Infertility is defined as the inability to conceive after having unprotected intercourse for a year. Infertility is increasing worldwide and has various causes, both in the male and the female partner. Immune reactions to sperm can contribute up to 2-30% of infertility. The sperm has both autoantigenic as well as isoantigenic potential and is thus capable of producing antisperm antibodies (ASAs) and sperm-reactive T cells in both infertile men and women. Also, over 75% of vasectomized men produce autoantibodies to sperm that can cause a problem in regaining fertility even after successful re-anastomosis in vasovasostomy. Early claims regarding the incidence and involvement of ASAs in involuntary human infertility were probably overemphasized because of unreliable techniques and naivety concerning the complexity of the immune response and antigenic nature of the sperm cell. These factors, the lack of well-designed and controlled experimental studies, and the dearth of effective therapeutic modalities resulted in the confusion of the occurrence and importance of ASAs in human infertility. Consequently, evaluation of infertile couples for ASAs and their possible role in infertility was not considered a significant proposition. The development of more accurate assays and the discovery of mucosal immunity capable of responses independent of systemic immunity have caused inclusion of sperm cells and genital tract secretions in the analysis of ASAs.

Male and Sperm Factors that Maximize IVF Success R. John Aitken, David Mortimer, Gabor Kovacs, 2020-04-30 A practical review of factors affecting male fertility and the treatments and strategies that can optimize IVF outcomes.

Andrology Eberhard Nieschlag, Hermann M. Behre, Sabine Kliesch, Susan Nieschlag, 2023-10-26 The successful book of andrology now in a new edition. This book gives a complete interdisciplinary overview of the central topics of andrology: infertility, hypogonadism, contraception, and erectile dysfunction. It contains detailed information on the clinical practice of couple treatment, andrology-relevant gynecology, and modern methods of assisted fertilization, psychological factors of infertility, endocrinology, and reproductive functions of the aging man, as well as on an important sub-area of andrology: the male contribution to contraception. In addition, the relevant scientific foundations, including molecular biology,

and genetics are also covered Completely revised and updated according to the latest scientific research the new edition represents a reference for andrology which no doctor who deals with the topic can miss For andrologists practitioners and residents urologists dermatologists and internists who deal with the area of andrology and male reproductive medicine

Practical Guide to Sperm Analysis Nicolás Garrido,Rocío Rivera,2017-05-25 This is a reference manual for daily use in the Reproductive Medicine or Andrology laboratory which goes beyond the literature available in the scientific journals by compiling insights into a detailed and applied clinical approach All established practitioners in Reproductive Medicine will find much of practical relevance about the latest insights into sperm selection and analysis Gamete Immunology Hiroaki Shibahara,Akiko Hasegawa,2022-08-26 This book describes the biology diagnosis treatment and the latest research on anti sperm antibody ASA and anti zona pellucida antibody AZPA produced in some infertile patients It summarizes ASA in both men and women and presents new research to serve as a guideline for medical treatment which currently varies considerably It also discusses the recently identified target antigens of these antibodies and the latest immunocontraceptive development projects The book features chapters on AZPA explaining the biological structure and function of the zona pellucida and describing the abnormality and the antibody It also provides insights into their evolution presenting the differences in taxonomy mammalian physiological functions and the morphologically and immunologically unique human zona pellucida Gamete Immunology is a valuable resource for researchers and postdocs who are curious about new research on ASA and AZPA It offers clinicians and embryologists who are interested in gamete immunology diverse perspectives as well as the basis for new ideas to treat the antibodies and develop contraceptive vaccinogens The Immunology of the Male Genital Tract Yong-Gang Duan, Daishu Han, Kenneth Tung,2022-11-18 The authors declare that the research was conducted in the absence of any commercial or financial relationships that could be construed as a potential conflict of interest **Novel Insights into Sperm Function and Selection: from Basic Research to Clinical Application** Kun Li,Tao Luo,Rossella Cannarella,2023-10-25 *Immunology of Recurrent Pregnancy Loss and Implantation Failure* Joanna Kwak-Kim,2022-07-03 Immunology of Recurrent Pregnancy Loss provides doctors and immunologists with the information they need to help couples who experience recurrent pregnancy losses Sections cover unexplained infertility repeated in vitro fertilization embryo transfer failures history of second or third trimester pregnancy losses of unknown cause or pregnancy with a history of or active autoimmune and or alloimmune disease Reproductive failure RF including recurrent pregnancy losses RPL and repeated implantation failures RIF is rather a syndrome than a disease caused by multiple etiologies such as anatomical endocrine genetic infectious immunological thrombotic and unexplained etiologies hence this book strives to present the latest information In 27 chapters divided in 5 sections the book introduces the current update of reproductive immunology topics in RF and provides systematic diagnostic guidelines systemic and immune etiologies and therapeutic approaches Provides detailed immunological background for understanding the etiology and management of reproduction failure

Evaluates various immunological factors involved in the pathogenesis and management of reproduction failure Gives insights into various immunological and therapeutic approaches for reproduction failure *Andrology for the Clinician*

Wolf-Bernhard Schill, Frank H. Comhaire, Timothy B. Hargreave, 2006-08-26 Andrology for the Clinician consists of two parts In Part One the busy clinician can easily find the problem orientated information he or she needs on such issues as male factor fertility problems male contraception and male genital tract infection and tumours Part Two contains in depth subject orientated information and adds important scientific background information to the recommendations received in Part One Several leading experts have contributed to this work which has been extensively subedited by world renowned editors to ensure a well structured didactic design and homogeneous content This outstanding book is of great value for all Urologists Andrologists Dermatologists Endocrinologists Gynaecologists Reproductive Biologists GPs Gerontologists Psychologists Psychiatrists Paediatricians and anyone else interested in the problems of male sex and constitution *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 Reproduction in Domestic Ruminants VII M. C. Lucy, J. L. Pate, M. F. Smith, T.E.

Spencer, 2011-02-01 The combined work of eminent scientists in the field this compilation contains the latest information on ruminant nutrition from the eighth annual International Ruminant Reproduction Symposium With discussions on how to improve reproduction by applying nutrition and physiology this collection spotlights the recent advances regarding the ruminant genome and includes chapters about specific animals including the dairy buffalo camel and reindeer

Cumulated Index Medicus , 1967 **Reproductive Immunology** Satish Kumar Gupta, 1999 Papers presented at the VII International Congress of Reproductive Immunology held from 27 30 October 1998 New Delhi organised by National Institute of Immunology Immunology of Pregnancy and its Disorders C.M. Stern, 2012-12-06 The purpose of this book is to describe the nature of the materno fetal immunobiological relationship and to suggest the direction in which the management of reproduction and its failure in man is moving The several authors who have written about their special fields

of interest need to be read within a framework designed to blend their contributions into a whole This preamble provides a part of that framework by describing the early development of the embryo that of the placenta and its membranes and their anatomical relationship with maternal tissues in other words the stage upon which this materno fetal dialogue takes place Professor Maureen Young s tour de force encapsulating the whole of fetal physiology into a single chapter completes the background information After Maureen Young s summary of fetal physiology Matteo Adinolfi describes the development of the immune system in the fetus including new information that allows more accurate speculation concerning the gestational age at which fetal immune responses of various kinds may begin Charles Loke examines the nature of antigens which are found in the placenta concentrating on those which occur on syncytiotrophoblast and suggesting roles for them in fetal development Arnold Kloppe covers the wide range of proteins and hormones which have been studied during pregnancy and found to vary in a potentially significant way He has been careful to distinguish between observation and hypothesis as far as any immunomodulating action is concerned and his analysis is a model of scientific scepticism

Reproductive and Hormonal Aspects of Systemic Autoimmune Diseases Michael Lockshin, Ware Branch, 2006-01-04 This volume of the Handbook of Systemic Autoimmune Diseases series represents a medical collaboration focusing primarily on female aspects of rheumatic diseases This collaboration recognizes the need to understand and optimally manage the care of women with autoimmune conditions that may affect their reproduction and hormonal status This handbook will prove useful to clinicians and researchers alike It covers practical points ranging from which anti rheumatic medications are safe in pregnancy to how to counsel women with scleroderma contemplating pregnancy Authors share an academic interest in the unique relationship between being a woman and having an autoimmune disease Touches on controversial topics such as the mechanism of antiphospholipid related fetal loss and whether or not non steroidal anti inflammatory agents should be used in pregnancy Includes critical and balanced reviews of the controversial association between autoimmune disease and female infertility

Biomedical Index to PHS-supported Research: pt. A. Subject access A-H ,1992 **Research Awards Index** ,1989

The Journal of Urology ,1987-07 **Immunopathology in Toxicology and Drug Development** George A.

Parker, 2017-03-27 This book provides a fundamental understanding of immunopathology and immunopathologic processes with particular attention to nonclinical toxicology studies Chapters provide organ system based summaries of spontaneous pathology and common responses to xenobiotics A companion volume Immunopathology in Toxicology and Drug Development Volume 1 Immunobiology Investigative Techniques and Special Studies offers an overview of general immunobiology cells of the immune system signaling and effector molecules and immunopathology assays These informative and strategic books were created in response to the large segment of drug development that focuses on chronic diseases many of which involve alterations to the immune system Therapies that target these diseases commonly involve some form of immunomodulation As a result the two volumes of Immunopathology in Toxicology and Drug Development are critical texts

for individuals involved in diverse aspects of drug development Readers will acquire a thorough understanding of immunopathology for detection and accurate interpretation of pathologic effects of xenobiotics on the immune system

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