A broad treatise on the complex genetic causes of human infertility

Genetics of Human Infertility

Editor: Peter H. Vogt

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.

CONTENTS
Preface: Vogt, P.H.
Genetic Basis of Male and Female Infertility: Mallepaly, R.; Butler, P.R.; Herati, A.S.; Lamb, D.J.
Genetics of Premature Ovarian Failure: New Developments in Etiology: Qin, Y.; Simpson, J.L.; Chen, Z.-J.
Genetics of Klinefelter Syndrome: Experimental Exploration: Wistuba, J.; Brand, C.; Zitzmann, M.; Damm, O.S.
Human Y Chromosome and Male Infertility: Forward and Back from Azoospermia Factor Chromatin Structure to Azoospermia Factor Gene Function: Vogt, P.H.; Bender, U.; Zimmer, J.; Strowitzki, T.
Genetics and Pathophysiology of the Cystic Fibrosis Transmembrane Conductance Regulator in Male Reproduction: New Evidence of a Direct Effect on the Male Germine: Touré, A.
The Genetics of Androgen Receptor Signalling in Male Fertility: O’Hara, L.; Smith, L.B.
The Genetics of Postmeiotic Male Germ Cell Differentiation from Round Spermatids to Mature Sperm: Lehtiniemi, T.; Kotaja, N.
The Epigenetics of Sperm Chromatin: Shamsi, M.B.; Simon, L.; Carrell, D.T.
Characteristic Features of Male Germline Development in Primates: Behr, R.
Genetic and Epigenetic Mouse Models of Human Male Infertility: Godmann, M.; Zemter, S.; Kosan, C.
In vitro Spermatogenesis and Its Potential Clinical Implication for Patients: Stukenborg, J.-B.; Jahnukainen, K.
Dear Librarian,

I have reviewed *Genetics of Human Infertility* (Monographs in Human Genetics, Vol. 21) and would like to recommend it for your library.

Recommended by:

Department: 
Date: 
Signature: 

Library Recommendation

Dear Librarian,

I have reviewed *Genetics of Human Infertility* (Monographs in Human Genetics, Vol. 21) and would like to recommend it for your library.

Recommended by:

Department: 
Date: 
Signature: 

ebooks are available on

www.karger.com/contact