

Ralph B. L. Gwatkin

Fertilization Mechanisms in Man and Mammals



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Fertilization Mechanisms In Man And Mammals

Minoru Fukuda



Fertilization Mechanisms In Man And Mammals:

Fertilization Mechanisms in Man and Mammals Ralph Gwatkin, 2012-12-06 Fertilization in mammals normally occurs within the oviduct where it is relatively inaccessible to study. However, as a result of painstaking research, most of it carried out over the last five years, this barrier to experimentation has been largely overcome by the development of in vitro fertilization techniques for at least 11 different species including man. The result has been a rapid increase in our knowledge of the physiological and biochemical mechanisms involved in the fertilization process. The aim of this book, which is an extension of my recent review of cell surface interactions in fertilization (Gwatkin 1976), is to present a brief but well documented account of the new knowledge that has been attained. Although this book deals with mammalian fertilization mechanisms, I have included some recent experiments on amphibian and invertebrate gametes to supplement the mammalian picture. This information is particularly valuable as the relatively large number of eggs available from these lower forms has advanced our knowledge of certain fertilization mechanisms beyond what is known in mammals. However, in the interest of brevity, I have omitted details of morphology and minor variations between species. For these and other aspects not covered here, the reader is referred to the books of Austin (1965, 1968), vii, viii; **PREFACE**; Austin and Short (1972); Metz and Monroy (1969); Monroy (1965); Lord Rothschild (1956a); and Zamboni (1971a). *Fertilization Mechanisms in Man and Mammals* Ralph Gwatkin, 1977-05-01

Fetal and Neonatal Physiology E-Book Richard Polin, Steven H. Abman, David H. Rowitch, William Benitz, 2021-07-29 Offering the comprehensive authoritative information needed for effective diagnosis, treatment, and management of sick and premature infants, *Fetal and Neonatal Physiology*, 6th Edition, is an invaluable resource for board review, clinical rounds, scientific research, and day-to-day practice. This trusted two-volume text synthesizes recent advances in the field into definitive guidance for today's busy practitioner, focusing on the basic science needed for exam preparation and key information required for full-time practice. It stands alone as the most complete text available in this complex and fast-changing field, yet is easy to use for everyday application. Offers definitive guidance on how to effectively manage the many health problems seen in newborn and premature infants. Contains new chapters on Pathophysiology of Genetic Neonatal Disease, Genetic Variants and Neonatal Disease, and Developmental Biology of Lung Stem Cells, as well as significantly revised chapters on Cellular Mechanisms of Neonatal Brain Injury, Neuroprotective Therapeutic Hypothermia, Enteric Nervous System Development, and Gastrointestinal Motility and Physiology of Twin. Twin Transfusion. Features 1,000 full-color diagrams, graphs, and anatomic illustrations. 170 chapters and more than 350 global contributors. Includes chapters devoted to clinical correlation that help explain the implications of fetal and neonatal physiology, as well as clinical applications boxes throughout. Provides summary boxes at the end of each chapter and extensive cross-referencing between chapters for quick reference and review. Allows you to apply the latest insights on genetic therapy, intrauterine infections, brain protection, and neuroimaging, and much more. **In-Vitro Fertilization** Kay

Elder, Brian Dale, 2020-03-12 Up to date comprehensive textbook for IVF practitioners covering the basic science and practical details that underpin successful IVF

Fetal and Neonatal Physiology Richard A. Polin, William W. Fox, Steven H. Abman, 2011-01-01 Fetal and Neonatal Physiology edited by Drs Polin Fox and Abman focuses on physiologic developments of the fetus and newborn and their impact on the clinical practice of neonatology A must for practice this 4th edition brings you the latest information on genetic therapy intrauterine infections brain protection and neuroimaging and much more You ll also have easy access to the complete contents and illustrations online at expertconsult com Gain a comprehensive state of the art understanding of normal and abnormal physiology and its relationship to disease in the fetus and newborn premature infant from Dr Richard Polin and other acknowledged worldwide leaders in the field Understand the implications of fetal and neonatal physiology through chapters devoted to clinical correlation Apply the latest insights on genetic therapy intrauterine infections brain protection and neuroimaging and much more Effectively manage the consequences of intrauterine infections with three new chapters covering intrauterine infection and preterm birth intrauterine infection and brain injury and intrauterine infection and chronic lung disease Access the complete contents and illustrations online at expertconsult com fully searchable Get the latest developments and a full understanding of the distinct physiology of the fetus and newborn so you can treat and manage sick newborns and preemies

Ultrastructure of Reproduction Jonathan van Blerkom, P. Motta, 2012-12-06 Advances in the development and application of electron microscopic techniques have occurred recently such that the electron microscope has evolved to become an essential tool in both basic and clinical research Use of this instrument has contributed significantly to the formation of new perspectives and concepts concerning cell fine structure These structural perspectives are now being integrated with specific functional biochemical and pathophysiological events and processes of cells and tissues Most recently utilization of innovative electron microscopic techniques such as freeze fracture freeze etching and scanning and high voltage electron microscopy offers both the basic and clinical scientist potentially fundamental insights into many morphodynamic processes related to the activities of cells and tissues Such an approach has been especially rewarding when applied to the dynamic events of gametogenesis and early embryonic development The chapters comprising this book have been selected and edited with the aim of providing an up to date and comprehensive account of the most important aspects of vertebrate gametes and embryos as revealed by the integration of several different submicroscopic methods The organization of the chapters is designed to indicate present gaps in our knowledge of the developmental and reproductive biology of gametes and the developing embryo and possible lines of research which may lead to a lessening of these gaps

Manipulation of Mammalian Development Ralph B.L. Gwatkin, 2013-11-11 Developmental biology has been transformed recently by discoveries in the fields of molecular biology cell biology and immunology New ways of manipulating mammalian development are uncovering control mechanisms and enabling us to apply them in solving practical problems in animal production and human health This book outlines some of

these new manipulations and how they have contributed to the present state of developmental biology Chapter 1 describes gene transfer by micro injection of cloned recombinant DNA into zygotes Although the factors that affect transformation frequencies and integration sites are still unknown such techniques offer a number of exciting prospects Research models for human disease could be artificially created and desirable characteristics in agricultural animals could be hanced The theme of cell to cell transfer is continued in Chapters 2 and 3 Chapter 2 describes pronuclear transplantation by Sendai virus induced fusion of the karyoplast with the enucleated embryo Using this procedure it has been dem onstrated that both male and female genomes are essential for normal develop ment although the reason for this is not yet understood Chapter 3 describes studies on the fusion of whole oocytes

The Male Factor in Human Infertility Diagnosis and Treatment W. Thompson,R.F. Harrison,J. Bonnar,2012-12-06 This book is a compilation of edited papers which were presented at the XIth World Congress of Fertility and Sterility held in June 1983 in Dublin Ireland Although it has long been known that male factors are responsible in at least 30% of infertile couples only recently have concerted efforts been made on the part of urologists gynaecologists and basic scientists to identify these factors more precisely The nature of spermatogenesis is complex but application of various scientific methods have at last opened up new and promising approaches to our understanding of this subject Clinical results however have been depressing the majority of treatments lack realistic evaluation and are initiated in hope rather than with a sound scientific basis We anticipate that this volume will in some small way correct these deficiencies The papers have been grouped into related topics The first section deals with the evaluation of the spermatozoa and includes a critical assessment of the recently introduced zona free hamster egg test of sperm function Further sections include the biochemistry of gonadal function and the immunology of male reproduction most papers are concerned with studies in the human The clinical sections cover medical and surgical approaches to treatment and the final section deals with various aspects of AID practice

Cell to Cell Signals in Plants and Animals Volker Neuheff,John Friend,2013-06-29 Summarizing research progress achieved in 32 areas of cell biology covered in this series this volume places special emphasis on the following topics recognition in parasitic and symbiotic systems the molecular biology and genetics of susceptibility and resistance of plants and animals to pathogens parasites and symbionts the cell to cell recognition and differentiation the most challenging problems in developmental biology of plants and animals the plasticity in cell to cell communication which plays a major role in cell differentiation and function

The Mammalian Egg Coat Johannes Dietl,2012-12-06 Publication of this monograph acknowledges great strides made in research on the zona pellucida during the past decade or so The body of work presented testifies to a resurgence of interest in the zona pellucida prompted largely by a renewed appreciation of its unique properties and its important functions during early mam malian development It is gratifying to realize that the zona pellucida has at last achieved a well deserved attention Whereas extracellular coats of nonmammalian eggs have been studied intensively for many years the zona pellucida by comparison has until now taken a

back seat Fortunately the research presented here signals an end to this situation Many of the difficulties inherent in working with relatively small amounts of material have been overcome paving the way for application of a wider variety of experimental approaches to the zona pellucida by a larger community of investigators Hopefully this monograph will serve as a catalyst in this regard As revealed in these pages application of contemporary experimental methodologies has had significant impact on both pure and applied research on the zona pellucida For example modern immunological approaches have been used to assess molecular features of zona pellucida structure and function as well as to evaluate the zona pellucida as a potential contraceptive target antigen

Cell Surface Carbohydrates and Cell Development Minoru Fukuda, 2024-12-20 *Cell Surface Carbohydrates and Cell Development* summarizes knowledge on the structure and function of cell surface carbohydrates in development and differentiation The chapters include reviews on the expression of cell type specific carbohydrates and their roles in cell cell interaction In particular the role of cell surface carbohydrates in immune cell response malignant transformation fertilization and neural cell development are addressed This includes the exciting discovery about the role of adhesive molecules in leukocyte endothelium interaction *Cell Surface Carbohydrates and Cell Development* also summarizes the latest knowledge on structure and biosynthesis of carbohydrates the role of specific carbohydrate modification and animal lectins The book will be useful to researchers and students interested in the biology of glycoproteins and biotechnology

Biochemistry of Mammalian Reproduction Lourens J. D. Zaneveld, Robert T. Chatterton, 1982

Cumulated Index Medicus, 1977

Reproductive Tissue Banking Armand M. Karow, John K. Critser, 1997-03-20 Reproductive technologies to assist in both human conception and animal breeding are increasingly in demand These technologies along with the advent of tissue engineering have propelled the challenges of tissue collection preservation and banking to the research forefront Using examples drawn from reproductive technologies *Reproductive Tissue Banking* presents the scientific principles underlying tissue banking These examples serve as models for the technology of banking other living tissues including blood bone marrow cornea and skin In discussing research emerging from their laboratories and those of others the authors meld fundamentals of biology chemistry and physics with the latest discoveries in the field to give the reader profound insight into research directions and ethical considerations crucial to the advancement of tissue banking With its emphasis on human applications and concerns this book provides a valuable supplement to short courses on tissue preservation and tissue engineering Researchers in reproductive medicine animal and veterinary science and cryobiology will find this book with its extensive bibliography a very handy reference Written by leading international researchers Provides insightful discussions on reproductive tissue banking Presents comprehensive citations to relevant literature both current and historic Discusses in vitro preservation of spermatozoa oocytes embryos and gonadal tissues of mammals Contains coverage of ethical considerations from a discussion of the splitting of embryos to an exploration of the protection of biodiversity

Human Reproductive Biology Mark M. Jones, 2012-12-02 *Human*

Reproductive Biology focuses on the processes concerns and trends in human reproduction Divided into four parts with 19 chapters the book starts by tracing the history of human reproduction biology and the questions and choices involved The first part focuses on the male and female reproductive systems The text notes the different organs involved in reproduction including the penis scrotum vagina oviducts and mammary glands The book discusses sexual development and differentiation particularly noting the variance of sex ducts and glands external genitalia and disorders of sexual development and determination The text also looks at puberty Concerns include gonadal changes from birth to puberty mechanisms that influence puberty and puberty and psychosocial adjustment The second part deals with menstrual cycle fertilization pregnancy labor and birth Some of the concerns include length of menstrual cycle absence of menstruation transport of sperm and ovum in the oviduct and semen release The text also highlights labor and birthing processes as well as the relationship of neonates and parents The third part looks at the medical aspects of human reproduction infertility and sexually transmitted diseases Concerns include contraception abortion herpes genitalis and vaginitis The text folds with discussions on human sexual behavior population growth and family planning Concerns include sexual dysfunction the effects of overpopulation and population control The book is a vital source of data for readers interested in human reproduction

The Fallopian Tubes Ronald H.F. Hunter, 2012-12-06 This monograph has been written in the hope that it will prove of value to medical students and clinicians to Honours undergraduates in appropriate branches of the natural sciences and to reproductive biologists in general It would be pleasing if the text also caught the attention of veterinary undergraduates since there is much information bearing on reproduction in domestic animals First and foremost however the intended audience is a medical one for scientific studies of human reproduction have been catalyzed by the intense interest in procedures of fertilization in vitro Some would judge that this very activity has narrowed our view of physiological events occurring within the Fallopian tubes The present work may therefore serve as a useful counterbalance to the overwhelming series of publications on procedures of in vitro fertilization and offer opportunities to those in the clinical field for extending their knowledge of the scientific background to much of the current work Gametes - The Oocyte Jurgis Gediminas Grudzinskas, J. L. Yovich, 1995-07-28 This volume and its companion volume on the spermatozoon provide an authoritative and wide ranging account of the gametes and their reproductive role and function in humans Acknowledged authorities from around the world contribute a detailed and timely account of the oocyte The volume starts with an evolutionary perspective before focusing on the molecular and cellular biology of the oocyte and its structure and function The development and maturation of the oocyte is fully dealt with to include the endocrine and paracrine regulation of ovarian function Practical issues such as oocyte storage and ovarian stimulation are also fully covered The causes of female infertility are also an important theme The volume concludes with a thought provoking chapter on ethical considerations The volume will be an essential source of information for all clinicians and scientists with an interest in human reproduction *Reproduction in*

Mammals: Volume 1, Germ Cells and Fertilisation C. R. Austin, 1982-08-05 In this our second edition of *Reproduction in Mammals* we are responding to numerous requests for a more up to date and rather more detailed treatment of the subject The first edition was accorded an excellent reception but Books 1 to 5 were written some 14 years ago and inevitably there have been many advances on many fronts since then As before the manner of presentation is intended to make the subject matter interesting to read and readily comprehensible to undergraduates in the biological sciences and yet with sufficient depth to provide a valued source of information to graduates engaged in both teaching and research Our authors have been selected from among the best known in their respective fields Book 5 is concerned with the many ways in which we can now manipulate reproductive processes in animals and humans thanks to our new understanding of hormone action and improved control over early developmental events We have at our disposal a whole array of synthetic hormone agonists antagonists and antibodies that can be used at will to stimulate or inhibit fertility in animals and humans alike so that productivity in livestock can be promoted according to plan and child bearing becomes more a matter of choice than chance We can compensate for infertility by in vitro fertilization and embryo transfer and overcome inherent deficiencies by techniques involving embryo manipulation Existing barriers to the dissemination and application of this new found knowledge are discussed in some detail since it is becoming increasingly clear that improvements in the quality of life for people in many developing countries will be long delayed unless they can meet essential needs and call a halt to runaway population growth

Controls of Sperm Motility Claude Gagnon, 2020-04-23 First published in 1990 this timely book provides the first comprehensive state of the art updates on various aspects of sperm motility The first section describes in detail the structures molecules and regulatory mechanisms involved in sperm movement Also reported are the effects of external milieu and egg factors on the initiation and types of sperm motility The second section covers how to measure sperm motility in human semen and in capacitating media The book addresses the prognostic value of motility parameters in cases of infertility It covers the clinical significance of various drugs and toxins on sperm motility and the clinical management of infertile males with sperm motility defects This volume is indispensable to biochemists cell biologists and andrologists interested in cell motility and to urologists obstetricians gynecologists and endocrinologists involved in the management of infertility It is of value to those in reproduction animal science veterinary science and vertebrate zoology The book contains basic and clinically relevant information for graduate students researchers and clinicians

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

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