



# Fertilization In Mammals

**Bonnie S. Dunbar, M.G. O'Rand**



## **Fertilization In 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).

**A Comparative Overview of Mammalian Fertilization** Bonnie S. Dunbar, M.G. O'Rand, 2013-06-29 In 1964 the Fertilization and Gamete Physiology Research Training Program (FERGAP) was established at the Marine Biological Laboratories, Woods Hole, Massachusetts. Over the course of the next 12 years, under the directorship of Dr. Charles B. Metz, FERGAP brought together trained and inspired a generation of students in reproductive biology from all over the world. As students of C. B. Metz and as FERGAP trainees, we would like to dedicate this collected work on comparative mammalian fertilization to our teacher and mentor, Dr. Charles B. Metz. Like a number of authors contributing to this volume, we have been struck by the significant impact that C. B. Metz and FERGAP had on the development of students of reproductive biology. Applying both the classical and molecular techniques of cell biology and immunology to problems of gamete biology, Dr. Metz emphasized a comparative and analytical approach that was reflected in his own research on fertilization in *Paramecia*, sea urchins, frogs, and mammals. It is hoped that this volume will serve to stimulate students to discover the myriad of fascinating research problems in gamete and reproductive biology. Bonnie S. Dunbar, Michael G. O'Rand, Houston, Texas; Chapel Hill, North Carolina. ix. Contents: Part I. COMPARATIVE OVERVIEW OF MAMMALIAN GAMETES. The Coevolution of Mammalian Gametes. 3. J. Michael Bedford. I. Introduction. 3. 2. Gamete Design. 4. 2. 1. Monotremes. 5. 2. 2. Marsupials. 5. 2. 3. Eutherians. 9. 3. Gamete Maturation. 14. 3. 1. Oocyte Maturation. 14. 3. 2. Sperm Maturation in the Male. 15.

**Schering Symposium on Intrinsic and Extrinsic Factors in Early Mammalian Development, Venice, April 20 to 23, 1970** Gerhard Raspé, 2017-02-22 Advances in the Biosciences 6 Schering

Symposium on Intrinsic and Extrinsic Factors in Early Mammalian Development Venice April 20 to 23 1970 is a collection of

papers presented at the Schering Symposium on Intrinsic and Extrinsic Factors in Early Mammalian Development held in Venice Italy on April 20 23 1970 Contributors explore intrinsic and extrinsic mechanisms underlying early development in mammals and cover topics ranging from transmission of maternal proteins into oocytes to normal and abnormal fertilization in mammals experimental early parthenogenesis in mammals and nutrient requirements for the culture of preimplantation embryos in vitro This book is comprised of 33 chapters and begins with an overview of the oocyte and the egg touching on subjects such as electron microscopy of the primary and secondary oocyte experimental early parthenogenesis in mammals and laparoscopic recovery of pre ovulatory human oocytes after priming of the ovaries with gonadotrophins The next section is devoted to intrinsic and extrinsic influence on the metabolism of preimplantation embryos and includes chapters dealing with the composition of oviductal and uterine fluids the role of uterine proteins in embryonic development sex chromosome markers as indicators in embryonic development and manipulations of the blastocyst The remaining chapters examine placental and fetal physiology immunology and teratology and differentiation of tissues This monograph will be of interest to biologists and physiologists      *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      *Reproduction in Farm Animals* E. S. E. Hafez, B. Hafez, 2013-07-03 When you're looking for a comprehensive and reliable text on large animal reproduction look no further the seventh edition of this classic text is geared for the undergraduate student in Agricultural Sciences and Veterinary Medicine In response to reader feedback Dr Hafez has streamlined and edited the entire text to remove all repetitious and

nonessential material That means you ll learn more in fewer pages Plus the seventh editing is filled with features that help you grasp the concepts of reproduction in farm animals so you ll perform better on exams and in practice condensed and simplified tables so they re easier to consult an easy to scan glossary at the end of the book an expanded appendix which includes graphic illustrations of assisted reproduction technology Plus you ll find valuable NEW COVERAGE on all these topics Equine Reproduction expanded information reflecting today s knowledge Llamas NEW CHAPTER Micromanipulation of Gametes and In Vitro Fertilization NEW CHAPTER Reach for the text that s revised with the undergraduate in mind the seventh edition of Hafez s Reproduction in Farm Animals     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 demonstrated that both male and female genomes are essential for normal development although the reason for this is not yet understood Chapter 3 describes studies on the fusion of whole oocytes     *Preimplantation Mammalian Embryos in Vitro: Recent Studies* Shuetu Suzuki,1972     *Brenner's Encyclopedia of Genetics* Stanley Maloy,Kelly Hughes,2013-03-03 The explosion of the field of genetics over the last decade with the new technologies that have stimulated research suggests that a new sort of reference work is needed to keep pace with such a fast moving and interdisciplinary field Brenner s Encyclopedia of Genetics Second Edition Seven Volume Set builds on the foundation of the first edition by addressing many of the key subfields of genetics that were just in their infancy when the first edition was published The currency and accessibility of this foundational content will be unrivalled making this work useful for scientists and non scientists alike Featuring relatively short entries on genetics topics written by experts in that topic Brenner s Encyclopedia of Genetics Second Edition Seven Volume Set provides an effective way to quickly learn about any aspect of genetics from Abortive Transduction to Zygotes Adding to its utility the work provides short entries that briefly define key terms and a guide to additional reading and relevant websites for further study Many of the entries include figures to explain difficult concepts Key terms in related areas such as biochemistry cell and molecular biology are also included and there are entries that describe historical figures in genetics providing insights into their careers and discoveries This 7 volume set represents a 25% expansion from the first edition with over 1600 articles

encompassing this burgeoning field Thoroughly up to date with many new topics and subfields covered that were in their infancy or not in existence at the time of the first edition Timely coverage of emergent areas such as epigenetics personalized genomic medicine pharmacogenetics and genetic enhancement technologies Interdisciplinary and global in its outlook as befits the field of genetics Brief articles written by experts in the field which not only discuss define and explain key elements of the field but also provide definition of key terms suggestions for further reading and biographical sketches of the key people in the history of genetics

**Parthenogenesis and Polyploidy in Mammalian Development**, 1957 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

**A Survey of Research on Reproduction Related to Birth and Population Control**, 1962-12 Human Embryology and Developmental Biology Bruce M. Carlson, MD, PhD, 2013-03-06 Master the concepts you need to know with Human Embryology and Developmental Biology Dr Bruce M Carlson's clear explanations provide an easy to follow road map through the most up to date scientific knowledge giving you a deeper understanding of the key information you need to know for your courses exams and ultimately clinical practice Visualize normal and abnormal development with hundreds of superb clinical photos and embryological drawings Access the fully searchable text online view animations answer self assessment questions and much more at [www.studentconsult.com](http://www.studentconsult.com) Grasp the molecular basis of embryology including the processes of branching and folding essential knowledge for determining the root of many abnormalities Understand the clinical manifestations of developmental abnormalities with clinical vignettes and Clinical Correlations boxes throughout Your purchase entitles you to access the web site until the next edition is published or until the current edition is no longer offered for sale by Elsevier whichever occurs first If the next edition is published less than one year after your purchase you will be entitled to online access for one year from your date of purchase Elsevier reserves the right to offer a suitable replacement product such as a downloadable or CD ROM based electronic version should access to the web site be discontinued

**A Survey of Research on Reproduction Related to Birth and Population Control**, as of January 1, 1963 National Institutes of Health (U.S.), 1963

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and abnormal human development Dr Bruce M Carlson provides authoritative readable coverage of today s scientific knowledge in this fast changing field keeping you up to date with what you need to know for coursework exams and clinical practice Features an extensive full color illustration program with hundreds of superb clinical photos and embryological drawings more than 50 new to this edition Presents information in an integrated easy to follow manner incorporating molecular experimental and morphological material into each relevant area of the text Includes numerous new high quality photos of congenital malformations Provides major updates to many topics including neuroembryology early embryology fetal imaging techniques somite formation and craniofacial development Newly added series of animations for visualization of complex embryological processes Helps you understand the molecular basis of embryology including the processes of branching and folding essential knowledge for determining the root of many abnormalities Features clinical vignettes and Clinical Correlations boxes to help you better understand the clinical manifestations of developmental abnormalities

**Research Grants Index** National Institutes of Health (U.S.). Division of Research Grants,1971      Research Awards Index ,1989      **Fertilization Mechanisms in Man and Mammals** Ralph Gwatkin,1977-05-01      **A Textbook of Embryology** Harvey Ernest Jordan,James Ernest Kindred,1926      **Reproductive Toxicology, Second Edition** J Witorsch Raphael,1995-06-30 Presents not only the major principles and current issues in the field but also provides a physiologic basis for the actions and reactions to reproductive toxic agents The volume is divided into three sections The first focuses on the current concepts of normal mammalian reproductive function from the systems to subcellular level The second explains how toxic substances disrupt the normal functioning of elements of the mammalian reproductive system The third section discusses other issues of long standing or recent interest to the field such as clinical aspects epidemiology and the toxic effects of low energy electromagnetic fields and tobacco alcohol and other substances of abuse Annotation copyright by Book News Inc Portland OR      *Human Embryology and Developmental Biology E-Book* Bruce M. Carlson,2023-08-26 Bruce Carlson s Human Embryology and Developmental Biology is one of the most detailed texts available for those who want to truly understand both the morphological and molecular aspects of human embryological development Fully updated in its seventh edition the book provides a thorough grounding in all aspects of embryology It presents in detail the molecular and cellular basis for embryological processes from early development through to development of body systems It covers examples of congenital malformations and their underlying mechanisms and comes complete with clinical vignettes and review questions to support learning This book will suit medical and science students taking embryology courses as well as scientists and clinicians who find themselves returning to this topic throughout their careers Clear and consistent writing style highly readable and well focused Extensively illustrated to demystify complex topics Good selection of original photographs of congenital anomalies to assist with identification Review questions and suggested readings for further learning Series of animations of complex embryological processes to accompany the text explanations Clinical correlation

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web fort lauderdale hollywood international airport fll is located on florida s atlantic coast about three miles southwest of downtown fort lauderdale and 21 miles north of miami it serves as a hub for silver airways and spirit airlines and a focus city for allegiant air jetblue airways and southwest airlines

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