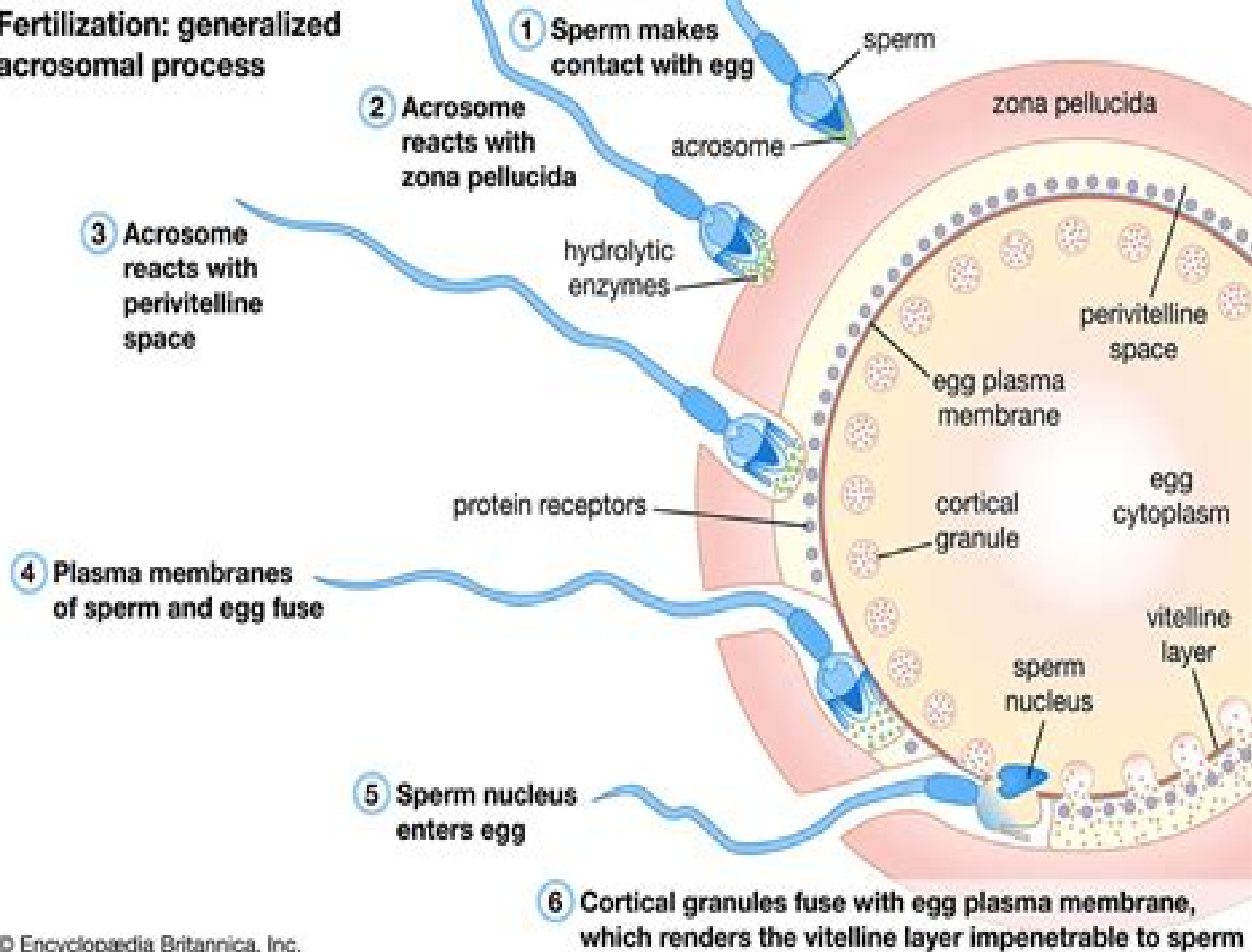


Fertilization: generalized acrosomal process



Fertilization In Mammals

Ralph Gwatkin



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 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 **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

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

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biologists and physiologists **Parthenogenesis and Polyploidy in Mammalian Development** ,1957 *Research Grants Index* National Institutes of Health (U.S.). Division of Research Grants,1971 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 boxes vignettes and summary boxes for quick revision An enhanced eBook version is included with purchase The eBook allows you to access all the text figures and references with the ability to search customize your content make notes and highlights and have content read aloud Many new drawings and photographs Thoroughly updated with recent research to advance understanding Expanded treatment of newly understood molecular pathways Major updates on gametes body axis formation placental pathology adipose tissue intestinal and facial development

Fine Morphology of Mammalian Fertilization Luciano Zamboni,1971 **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

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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

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Table of Contents Fertilization In Mammals

1. Understanding the eBook Fertilization In Mammals
 - The Rise of Digital Reading Fertilization In Mammals
 - Advantages of eBooks Over Traditional Books
2. Identifying Fertilization In Mammals
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Fertilization In Mammals
 - User-Friendly Interface
4. Exploring eBook Recommendations from Fertilization In Mammals
 - Personalized Recommendations
 - Fertilization In Mammals User Reviews and Ratings
 - Fertilization In Mammals and Bestseller Lists
5. Accessing Fertilization In Mammals Free and Paid eBooks
 - Fertilization In Mammals Public Domain eBooks
 - Fertilization In Mammals eBook Subscription Services

- Fertilization In Mammals Budget-Friendly Options
- 6. Navigating Fertilization In Mammals eBook Formats
 - ePub, PDF, MOBI, and More
 - Fertilization In Mammals Compatibility with Devices
 - Fertilization In Mammals Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Fertilization In Mammals
 - Highlighting and Note-Taking Fertilization In Mammals
 - Interactive Elements Fertilization In Mammals
- 8. Staying Engaged with Fertilization In Mammals
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Fertilization In Mammals
- 9. Balancing eBooks and Physical Books Fertilization In Mammals
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Fertilization In Mammals
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Fertilization In Mammals
 - Setting Reading Goals Fertilization In Mammals
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Fertilization In Mammals
 - Fact-Checking eBook Content of Fertilization In Mammals
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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