

**CRC**

**ELEMENTS  
*of*  
MAMMALIAN  
FERTILIZATION**

**Volume I  
Basic Concepts**

**Paul M. Wassarman**

**CRC PRESS**

# Elements Of Mammalian Fertilization Basic Concepts

**Stanley Maloy, Kelly Hughes**



## **Elements Of Mammalian Fertilization Basic Concepts:**

*Cell Physiology Source Book* Nicholas Sperelakis, Nick Sperelakis, 2001-08-02 This completely revised and updated source book provides comprehensive and authoritative coverage of cell physiology and membrane biophysics. Intended primarily as a text for advanced undergraduate and graduate students and as a reference for researchers, this multidisciplinary book includes several new chapters and is an invaluable aid to scientists interested in cell physiology, biophysics, cell biology, electrophysiology, and cell signaling. **KEY FEATURES** Completely revised and updated includes 8 new chapters on such topics as membrane structure, intracellular chloride regulation, transport, sensory receptors, pressure effects, and infrared detectors. Includes broad coverage of both animal and plant cells. Appendixes review basics of the propagation of action potentials, electricity, and cable properties. Authored by leading experts in the field. Clear, concise, comprehensive coverage of all aspects of cellular physiology from fundamental concepts to more advanced topics. **PRAISE FOR THE SECOND EDITION** The authoritative volume in the field of cell physiology and certainly one of the most current sources of comprehensive information available. **CHOICE** a core textbook in cell physiology. The need for such a book is well justified and it fulfills its objectives admirably. It is especially strong on the subjects of signal transduction, membrane biology, ion channels, and neuronal and muscle cell physiology. It is a solid textbook in its field. **DOODY'S PUBLISHING REVIEWS** *Cell Physiology Source Book 2e* will be useful for advanced undergraduate and graduate students studying cell physiology, cell biophysics, electrophysiology, and biological scientists in many fields. The book is particularly suitable for introducing cell physiology to students with training in the physical sciences and for introducing cell biophysics to students with backgrounds in biology. **BIOPHYSICAL JOURNAL** The *Cell Physiology Source Book* was on **CHOICE's** list of Outstanding Academic Books for 1996 and the second edition was on **CHOICE's** list of Outstanding Academic Books in 1998. **Fertilization** Daniel M. Hardy, 2002 Gamete transport Susan S. Suarez Sperm motility activation and chemoattraction Timothy A. Quill and David L. Garbers Capacitation Bijay S. Jaiswal and Michael Eisenbach Function of the egg's extracellular matrix Richard A. Cardullo and Catherine D. Thaler Sperm adhesion to the extracellular matrix Ming Bi Michael J. Wassler and Daniel M. Hardy Signal transduction mechanisms regulating sperm acrosomal exocytosis Gregory S. Kopf Regulation of sperm ion currents Alberto Darszon Felipe Espinosa Blanca Galindo Daniel Sanchez and Carmen Beltrán Function of the sperm acrosome George L. Gerton Gamete fusion in mammals Paul Primakoff and Diana G. Myles Membrane events of egg activation Karl Swann and Keith T. Jones Molecular genetics of fertilization Patricia Olds Clarke and Stephen H. Pilder Gamete immunobiology M. G. O'Rand and I. A. Lea **Fertilization biophysics** D. P. L. Green Applications of fertility regulation for the management of **Cell Physiology Sourcebook** Nicholas Sperelakis, 2001-05-15 This completely revised and updated source book provides comprehensive and authoritative coverage of cell physiology and membrane biophysics. Intended primarily as a text for advanced undergraduate and graduate students and as a reference for researchers, this multidisciplinary book includes

several new chapters and is an invaluable aid to scientists interested in cell physiology biophysics cell biology electrophysiology and cell signaling Includes broad coverage of both animal and plant cells Appendices review basics of the propagation of action potentials electricity and cable properties *Manual of Cytogenetics in Reproductive Biology* Pankaj Talwar, 2014-02-28 Cytogenetics is the study of the structure and function of the cell particularly chromosomes *Manual of Cytogenetics in Reproductive Biology* examines the diagnostic role of cytogenetics in improving the outcome of assisted reproductive technologies ART Divided into six sections the book begins with the basics of genetics followed by investigative cytogenetics applied cytogenetics recent advances preimplantation and prenatal cytogenetics This comprehensive guide includes nearly 200 clinical images diagrams and tables and is an invaluable reference for practising specialists in genetics infertility and obstetrics and gynaecology Key points Examines diagnostic role of cytogenetics in improving outcome of ART Six sections each providing in depth coverage of different aspects of cytogenetics Includes nearly 200 clinical images diagrams and tables Invaluable for specialists in genetics infertility and OBGY **Spermatogenesis — Fertilization — Contraception** S. Nieschlag, E. Nieschlag, Ursula-F. Habenicht, 2013-04-17 Investigations into the mechanisms of spermatogenesis sperm maturation and fertilization provide the basis of our understanding of male reproductive physiology Since in recent years molecular and cellular endocrinology has provided particularly important contributions to our knowledge the European Workshops on Molecular and Cellular Endocrinology of the Testis held regularly during even years since 1980 have become a prominent forum for researchers in the field to discuss recent findings and exchange new ideas The most recent of these Testis Workshops the 7th was held on May 5-10 1992 at Castle Elmau in the Bavarian Alps The main lectures of this Workshop form the core of this book In order to provide a broader view of the current status of male reproduction research this volume also contains the proceedings of the Schering Foundation Workshop on Basic Mechanisms of Reproduction and Male Fertility Control which was held in Berlin on October 31 to November 2 1991 The topics of the two meetings were planned to complement each other By combining the proceedings of both workshops it became possible to produce a book that covers a wide spectrum of current highlights in male reproduction research and provides the reader with an up to date review of the field The timeliness of the book is emphasized by the fact that it was already available when the 7th European Testis Workshop took place **Elements of Mammalian Fertilization Basic Concepts** Paul M. Wassarman, 1990-11-14 Volume 1 **Gamete and Embryo Quality** H.J.T Coelingh, L. Mastroianni, J, 1994-03-15 Designed as an aid for all clinicians and scientists who are currently engaged in the field of in vitro fertilization and other assisted conception techniques The book provides a comprehensive account of gamete and embryo quality and reflects up to date assessment of current knowledge **Gametes - The Spermatozoon** Jurgis Gediminas Grudzinskas, J. L. Yovich, 1995-09-07 This is detailed comprehensive and timely account of the spermatozoon and its reproductive function **Current Topics in Developmental Biology**, 1996-09-18 Volume 34 continues the series tradition of timely review and incisive analyses of key

research in developmental biology Not only valuable to researchers at the forefront of animal and plant development this volume is also a friendly introduction to students and professionals who are curious about current topics in cellular and molecular mechanisms in development

**The Sodium-Hydrogen Exchanger** Morris Karmazyn, Metin Avkiran, Larry Fliegel, 2012-12-06 I am extremely honored and pleased to have the opportunity to write a few introductory words for this timely volume on Na<sup>+</sup> exchange This is a field of investigation that I entered into by challenge and necessity embraced with passion and finally left in my quest for new discoveries in growth control Ten years one third of my scientific life has been devoted to uncovering the mysteries of intracellular pH regulation with respect to growth factor action I got started on this new topic in 1980 when I heard a rather provocative hypothesis presented by Enrique Rozengurt at an ICN UCLA Keystone meeting on Cell Surface and Malignancy He showed that all mitogens induced amiloride sensitive Na<sup>+</sup> entry into resting cells and proposed that if a compound stimulates Na<sup>+</sup> influx it could be a mitogen In support of his proposal Enrique reported that the amphipathic polypeptide mellitin which induced Na<sup>+</sup> influx was indeed mitogenic for 3T3 cells This was only correlation at this stage However I was fascinated by this talk I immediately approached Enrique to inform him of my skepticism about this beautiful story and to indicate that I would only be convinced when I succeeded in isolating mutant fibroblasts lacking the amiloride sensitive Na<sup>+</sup> transporter Good luck was his response

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

**Meiosis and Gametogenesis**, 1997-11-24 In spite of the fact that the process of meiosis is fundamental to inheritance surprisingly little is understood about how it actually occurs There has recently been a flurry of research activity in this area and this volume summarizes the advances coming from this work All authors are recognized and respected research scientists at the forefront of research in meiosis Of particular interest is the emphasis in this volume on meiosis in the context of gametogenesis in higher eukaryotic organisms backed up by chapters on meiotic mechanisms in other model organisms The focus is on modern molecular and cytological techniques and how these have elucidated fundamental mechanisms of meiosis Authors provide easy access to the literature for those who want to pursue topics in greater depth but reviews are comprehensive so that this book may become a standard reference Key Features Comprehensive reviews that taken together provide up to date coverage of a rapidly moving field Features new and unpublished information Integrates research in diverse organisms to present an overview of common threads in mechanisms of meiosis Includes thoughtful consideration of areas for future investigation

**The Enzyme Reference** Daniel L. Purich, R. Donald Allison, 2003-01-04 The aim of this work is to provide a fuller spectrum of information in a single source on enzyme catalyzed reactions than is currently available in any published reference work or as part of any Internet database The Enzyme Reference A Comprehensive Guidebook to Enzyme Nomenclature Reactions and Methods includes 20 000 review articles and seminal research papers Additionally it provides a novel treatment of so called ATPase and GTPase reactions to account for the noncovalent substratelike and productlike states of molecular motors elongation factors transporters DNA helicases G regulatory proteins and other energases Includes a compendium of over 6 000 enzyme reactions including enzyme commission numbers alternative names substrates products alternative substrates and properties Covers over 900 chemical structures of key metabolites and cofactors Index directs readers to the exact pages for over 9 500 enzyme names

**Advances in Developmental Biochemistry** Paul Wassarman, 1999-04-01 This series provides annual reviews of research topics in developmental biology biochemistry written from the perspectives of leading investigators in these fields This volume of Advances in Developmental Biochemistry consists of seven chapters that review specific aspects of development in several different organisms including mollusks flies and mice

**Molecular and Cellular Endocrinology of the Testis** G. Verhoeven, U.-F. Habenicht, 2013-06-29 The European Workshops on Molecular and Cellular Endocrinology of the Testis have become by now a well established tradition Thanks to their special format the quality of the main lectures and miniposters and the vivid discussions they enjoy the ever increasing interest and active participation of all European scientists working in the field Moreover since the very beginning they have attracted investigators from all over the world The most recent Testis Workshop was held in De Panne Belgium from 27-3 March 1994 As always the frame work of the workshop was provided by a series of lectures delivered by a panel of internationally recognized authorities These lectures are gathered in the present

volume of the Ernst Schering Foundation Workshop series Together with the Miniposter book they constitute an excellent written account of the Proceedings of the 8th European Testis Workshop The testis undoubtedly represents one of the most complex and intriguing tissues in the body Both its endocrine function the secretion of male sex hormones and its exocrine role the production of mature spermatozoa continue to raise startling questions to clinicians physiologists endocrinologists and scientists involved in fundamental research Few organs maintain and support a differentiation process as complicated as spermatogenesis few tissues continually display both mitotic and meiotic cell cycles in such a stringently controlled fashion or a comparable need for coordinated endocrine and local control

**Cell Physiology** Joseph F. Hoffman, James D. Jamieson, American Physiological Society (1887- ), 1997

**Handbook of Physiology** Joseph F. Hoffman, James D. Jamieson, 1997 The aim of this handbook is to survey key areas in modern cellular and molecular physiology The topics covered range from the most fundamental biophysical and biochemical bases of cellular physiology to more concerted cellular biological processes A more elusive goal of this volume is to provide a framework for future research linking these various processes in whole animal systems The chapters begin with descriptions of basic membrane processes including membrane structure as it relates to function the biophysics of membrane transport and cell volume regulatory mechanisms The organization and function of the plasma membrane and intracellular organelles involved in membrane trafficking and the biogenesis of cell polarity are then reviewed in depth Energy generation and transduction subserving cellular function are covered in another series of chapters The structure and function of the cytoskeleton and its relationship to events regulated by interaction with the extracellular matrix are examined in detail Chapters on the integrative aspects of cellular physiology including immunobiology cellular interactions fertilization and interactions of cells with the extracellular matrix round out this authoritative survey of contemporary cellular physiology Researchers instructors post doctorate and graduate students will find it a uniquely useful resource

*National Library of Medicine Current Catalog* National Library of Medicine (U.S.), 1991

Scientific Essentials of Reproductive Medicine S. G. Hillier, 1996 Addressing the scientific basis of obstetrics and gynaecology in the 1990s this textbook focuses on the fundamentals of reproductive medicine from the perspective of molecular and cellular biology It is aimed primarily at trainees in particular MROG Part 1 candidates

*Molecular Biology of the Male Reproductive System* David de Kretser, 2012-12-02 Written by experts in their respective fields this book reviews the expanding knowledge concerning the mechanisms regulating male reproduction at the molecular and cellular levels It covers the development of the testes and regulatory controls for spermatogenesis and steroidogenesis and it considers aspects of Sertoli cell function Areas of emphasis include communication between the various cell types involved in reproduction by hormone and growth factors and the mechanisms by which these factors regulate gene expression A number of mammalian systems including humans are covered The carefully selected authors provide a clear synopsis of the concepts in each area as well as the latest references enabling the reader to investigate the topic further This book is of interest to

those seeking an understanding of the regulatory mechanisms in male reproduction and is written for the graduate and postgraduate levels Provides up to date reviews of the molecular and cellular biology of male reproduction Includes chapters on the developmental biology of the testes Links conventional hormonal control of testicular function with the evolving role of growth factors and proto oncogenes



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