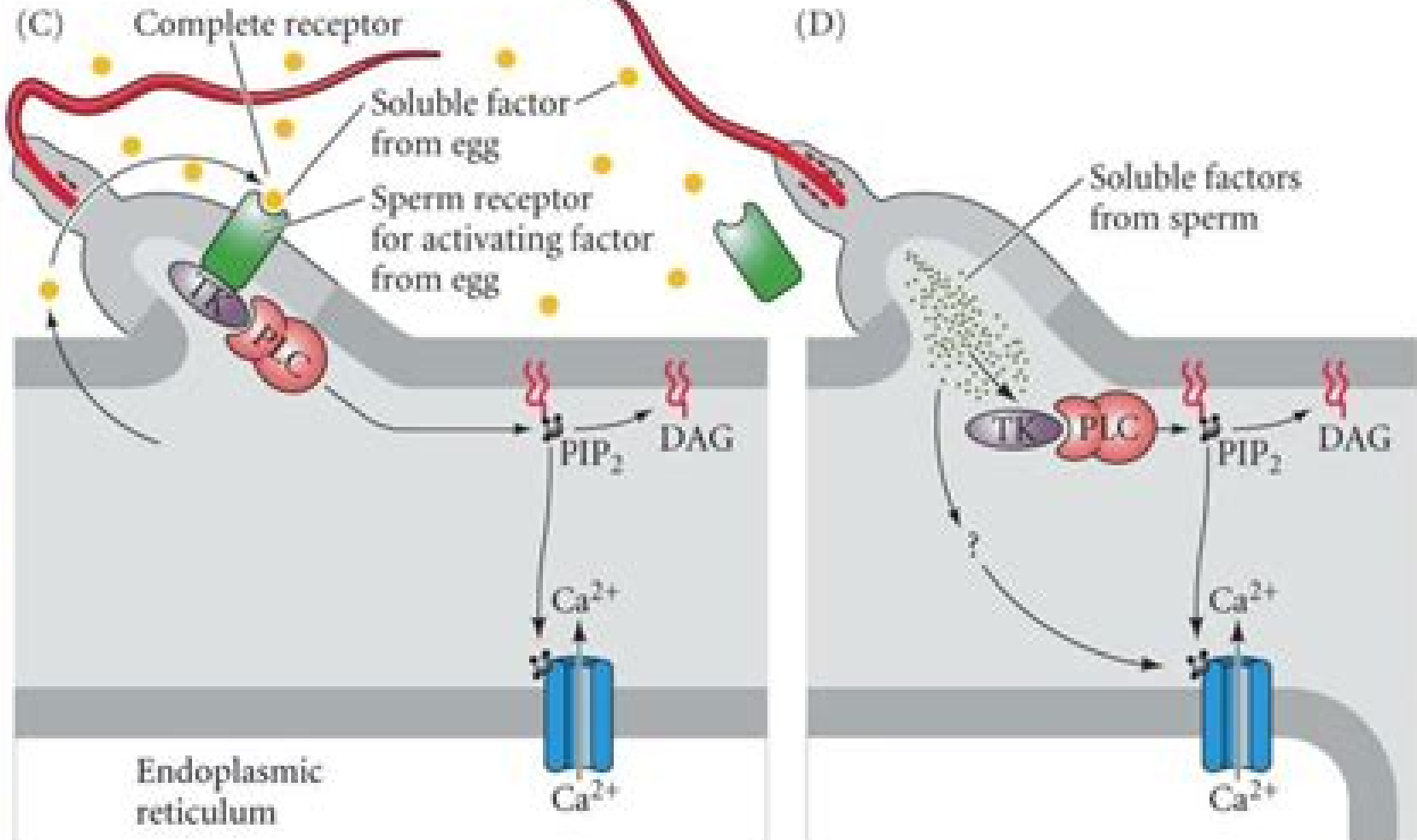


## Possible Mechanisms of Egg Activation

### ACTIVATION AFTER SPERM FUSION



# Mechanisms Of Egg Activation

**Kazuya Kobayashi, Takeshi  
Kitano, Yasuhiro Iwao, Mariko Kondo**



## **Mechanisms Of Egg Activation:**

**Mechanisms of Egg Activation** R. Nuccitelli, 2013-06-29 Proceedings of the meeting held in Sept 1988 Research over the past decade has yielded several breakthroughs in this field and most of them are discussed in this volume including electrical events accompanying sperm egg interactions signal transduction mechanisms in egg activation metabolic co

Mechanism of Fertilization: Plants to Humans Brian Dale, 2013-06-29 The majority of scientists interested in fertilization and early developmental processes will undoubtedly have encountered the works of Alberto Monroy at some time in their careers Alberto's contribution to this field spans oogenesis to embryogenesis where he used physiological biochemical and morphological tools to answer a number of basic problems in cell biology This multi disciplinary approach together with his remarkable intellectual flexibility and humour has had an enormous impact on this field and all those fortunate enough to have worked with him The chapters in this book have been divided into four sections The initial presentations revolve around late events of gametogenesis that lead to a physiologically mature gamete Probably the most exciting area for research at the moment is the identification of the cytoplasmic mechanisms responsible for the meiotic arrest of oocytes and the factors responsible for initiating their maturation Chapters 3 and 4 Less is known about the physiological changes in the male gamete in preparation for fertilization and this may be identified as a major area for future research Although comparable data for the plant kingdom is presently restricted to studies on marine algae new techniques for isolating angiosperm gametes Chapters 1 and 17 promise rapid advances in this field The second section looks at the events and molecules involved in gamete recognition binding and fusion One of the most controversial topics is when does sperm egg fusion actually occur Chapter 14

**Investigations Into the Mechanism of Egg Activation at Fertilization** Andrew Frank Giusti, 1999 **Molecular and Cellular Mechanisms in Reproduction and Early Development** Rafael A. Fissore, Adam Burton, Karin Lykke-Hartmann, 2019-08-20 The Research Topic aims to support progress towards understanding the different sets of developmental processes that are absolutely required to complete all the steps essential for successful embryonic development under physiological conditions We sought contributions that dealt with single cells interaction between cells as well as intra and extracellular signal transduction The Research Topic presents original studies covering experimental and theoretical approaches descriptions of new methodologies reviews and opinions *Biomedical Index to PHS-supported Research*, 1990 **Biomedical Index to PHS-supported Research: pt. A. Subject access A-H**, 1992 Research Awards Index, 1989

*Reproductive and Developmental Strategies* Kazuya Kobayashi, Takeshi Kitano, Yasuhiro Iwao, Mariko Kondo, 2018-06-01 This book provides new insights into the universality of biological systems in animal reproduction and development by a comparative study of a variety of mechanisms in animals ranging from basal invertebrates to vertebrates including mammals Animals accomplish genetic diversity through meiosis and fertilization and during embryogenesis animals must produce specialized cell types including germ cells in accordance with their individual body plan This series of

phenomena is essential to the continuity of life in the animal kingdom and animals show various reproductive and developmental strategies This volume comprising four parts reviews animal kingdom diversity including reproductive strategies and germ cell differentiation mechanisms Part 1 sex determination and differentiation Part2 the mechanisms of fertilization Part 3 and body axis formation Part 4 Readers will find descriptions of the reproduction or development of 180 species 13 phyla 35 classes 74 orders 117 families and 151 genera in this book Of particular interest is the diversity of molecules and mechanisms used to achieve the same biological purpose in different animals Undergraduates graduate students and professional scientists who want a deeper understanding of animal reproductive and developmental mechanisms will find this book to be of great value *Fertilization* Frank Longo,2020-11-25 This edition provides the reader with an introduction to this subject During the past five years there has been a virtual explosion of information on the different phases of fertilization This book should be of interest to advanced undergraduates and graduate students in developmental biology zoology and cell biology researchers entering the field Sperm Differentiation and Spermatozoa Function: Mechanisms, Diagnostics, and Treatment Tomer Avidor-Reiss,Zhibing Zhang,Xin Zhiguo Li,2020-05-22

**Fertilization** Frank J. Longo,1997 This book should **Sexual Reproduction in Animals and Plants** Hitoshi Sawada,Naokazu Inoue,Megumi Iwano,2014-02-07 This book contains the proceedings of the International Symposium on the Mechanisms of Sexual Reproduction in Animals and Plants where many plant and animal reproductive biologists gathered to discuss their recent progress in investigating the shared mechanisms and factors involved in sexual reproduction This now is the first book that reviews recent progress in almost all fields of plant and animal fertilization It was recently reported that the self sterile mechanism of a hermaphroditic marine invertebrate ascidian is very similar to the self incompatibility system in flowering plants It was also found that a male factor expressed in the sperm cells of flowering plants is involved in gamete fusion not only of plants but also of animals and parasites These discoveries have led to the consideration that the core mechanisms or factors involved in sexual reproduction may be shared by animals plants and unicellular organisms This valuable book is highly useful for reproductive biologists as well as for biological scientists outside this field in understanding the current progress of reproductive biology **The Mechanism of Fertilization** Frank Rattray Lillie,1913 **Current Topics in Developmental Biology** ,1998-03-23 This Series provides a comprehensive survey of the major topics in the field of developmental biology The volumes are valuable to researchers in animal and plant development as well as to students and professionals who want an introduction to cellular and molecular mechanisms of development This year marks a major milestone for the Series as it completes its thirtieth year of publication making it the longest running forum for contemporary issues in developmental biology **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

*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>/H<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 melittin 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

Mechanism of Egg Activation as a Model for the Fertilization Process Dalit Ben-Yosef, 1996

Cumulative Subject Index, 1998-10-19 This Series provides a comprehensive survey of the major topics in the field of developmental biology The volumes are valuable to researchers in animal and plant development as well as to students and professionals who want an introduction to cellular and molecular mechanisms of development The Series has recently passed its 30 year mark making it the longest running forum for contemporary issues in developmental biology

*New Horizons in Reproductive Medicine* C. Coutifaris, L. Mastroianni, 1997-08-15 This is an extensively detailed comprehensive clinical reference text dealing with every aspect of reproductive medicine and science in 77 major contributions by today's leading international authorities The book covers an immense range of subjects including sexually transmitted diseases male and female contraception endometriosis the menopause assisted reproduction pediatric and adolescent reproductive medicine normal and abnormal pregnancy endoscopy and advanced surgical procedures IVF procedures GnRH LHRH FSH genetics neuroactive peptides and steroids and chromosomal abnormalities The book contains

a unique fund of up to date reference lists covering every area of reproductive medicine and science are more extensive and is fully indexed Main Sections Social ethical issues and an agenda for the future Sexually transmitted diseases Issues in contraception Gonadotropins and neurohormones The polycystic ovary The fallopian tube Assisted reproduction technology Management of male infertility Pediatric and adolescent reproductive medicine Genetics and reproduction Recurrent pregnancy loss and basic mechanisms underlying preeclampsia and endometriosis The menopause Endoscopy and reproductive medicine Index     Textbook of Clinical Embryology Kevin Coward,Dagan Wells,2013-10-31 The success of Assisted Reproductive Technology is critically dependent upon the use of well optimized protocols based upon sound scientific reasoning empirical observations and evidence of clinical efficacy Recently the treatment of infertility has experienced a revolution with the routine adoption of increasingly specialized molecular biological techniques and advanced methods for the manipulation of gametes and embryos This textbook inspired by the postgraduate degree program at the University of Oxford guides students through the multidisciplinary syllabus essential to ART laboratory practice from basic culture techniques and micromanipulation to laboratory management and quality assurance and from endocrinology to molecular biology and research methods Written for all levels of IVF practitioners reproductive biologists and technologists involved in human reproductive science it can be used as a reference manual for all IVF labs and as a textbook by undergraduates advanced students scientists and professionals involved in gamete embryo or stem cell biology

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