



# Future Of The Oocyte

**Ri-Cheng Chian, Patrick Quinn**



## **Future Of The Oocyte:**

*The Future of the Oocyte* John Eppig, Christa Hegele-Hartung, 2013-03-09 Since the first successful transfer of an in vitro fertilised human egg in 1976 modern endocrinology genetics and assisted reproductive technologies have opened new frontiers of research with the aim to treat infertile women In this workshop we set out to promote an interdisciplinary discussion between experts from various fields of basic company based and clinical research related to folliculogenesis and oocyte development The aim of this workshop was to present discuss and assess novel approaches in mammalian folliculogenesis and oocyte development that may have an impact on fertility infertility in the near or distant future Key issues were the understanding of new modulators of folliculogenesis and regulators of cytoplasmic as well as meiotic oocyte maturation modern technologies the aging oocyte and pathogenetic mechanisms of infertility

**Future Aspects in Human In Vitro Fertilization** Wilfried Feichtinger, Peter Kemeter, 2012-12-06 While the organization of an international congress on in vitro fertilization IVF was an entirely new venture for us in 1983 since we had no experience but were full of optimism we approached the organization of a second Congress in Vienna in 1986 much more calmly Our experience had increased as had the readiness of many of our friends to help and of people interested in cooperating However would our Congress not lose its originality on account of the increased routine This was certainly a possible danger which we wanted to prevent by means of two counter measures The first concerned the scientific program the new and trend setting aspects of IVF would be discussed primarily rather than the results of traditional methods The second measure concerned the social program aimed more at private contacts in the intimate and familiar atmosphere of homes and workplace rather than meetings in luxurious but impersonal public institutions We believe that both these measures achieved the desired effect Although we could not avoid some events taking place at the same time the most important problems were treated and discussed jointly Thus the Congress was easy to survey and all topics were thoroughly discussed

**Vitellogenin in Fishes- Diversification, Biological Properties, and Future Perspectives** Vaseeharan Baskaralingam, Rapeepun Vanichviriyakit, 2023-11-24 This book provides basic and advanced information on vitellogenin in fish The proposed book discusses the history of vitellogenin previtellogenesis their diversification and classification in fishes and tools for their identification and characterization Further their functional aspects in oogenesis and its regulatory mechanism role as the immunocompetent molecule and reproductive strategies are discussed The book further examines vitellogenin as a hormone and biomarker its related egg yolk proteins and its mechanism on molecular cloning and induction In addition the book discusses its role in the disruption of the endocrine system in fish its biological activities its multivalent mechanism in marine and freshwater fishes and its impact on the growth of ornamental fishes Moreover this book elaborates on the multiple vitellogenin genes each with unique promoter regions and varying sensitivity to induction by estradiol and multiple Vtg proteins themselves with variable degrees of post translational modification As such this book is helpful for researchers and students interested in the reproduction of

fishes and reproductive biology      *Insect Biology in The Future* Michael Locke, 2012-12-02 Insect Biology in the Future VBW 80 contains essays presented to Sir Vincent Wigglesworth during his 80th year Wigglesworth is fairly designated as the founding father and remarkable leader of insect physiology His papers and other works significantly contribute to this field of study This book dedicated to him underlines the value of insect material in approaching a wide spectrum of biological issues The essays in this book tackle the insects physiology including their evolution and dominance The papers also discuss the various avenues of water loss and gain as interrelated components of overall water balance in land arthropods This reference suggests possible areas for further research mainly at the whole animal level It also describes the fat body hemolymph endocrine control of vitellogenin synthesis reproduction growth hormones chemistry defense and survival of insects Other topics of importance include cell communication and pattern formation in insects plant insect interaction and insecticides

**Sex in the Future** Robin Baker, 2000 Robin Baker an expert on evolution and human sexual behavior turns his attention to the reproductive revolution that is happening around us Baker explains the technologies of assisted reproduction that are currently available and those likely to become available as we proceed in the twenty first century from in vitro fertilization and surrogate motherhood to cloning gamete banking and novel ways of micromanipulating sperm and egg testes and ovaries BOOK JACKET Title Summary field provided by Blackwell North America Inc All Rights Reserved      **Current and Future Reproductive Technologies and World Food Production** G. Cliff Lamb, Nicolas DiLorenzo, 2013-10-29 This book addresses the impacts of current and future reproductive technologies on our world food production and provides a significant contribution to the importance of research in the area of reproductive physiology that has never been compiled before It would provide a unique opportunity to separate the impacts of how reproductive technologies have affected different species and their contributions to food production Lastly no publication has been compiled that demonstrates the relationship between developments in reproductive management tools and food production that may be used a reference for scientists in addressing future research areas During the past 50 years assisted reproductive technologies have been developed and refined to increase the number and quality of offspring from genetically superior farm animal livestock species Artificial insemination AI estrous synchronization and fixed time AI semen and embryo cryopreservation multiple ovulation and embryo transfer MOET in vitro fertilization sex determination of sperm or embryos and nuclear transfer are technologies that are used to enhance the production efficiency of livestock species      *Reproductive Endocrinology and Infertility* Douglas T. Carrell, C. Matthew Peterson, 2010-03-23 Management of the modern reproductive endocrinology and infertility clinic has become very complex In addition to the medical and scientific aspects it is crucial that the modern director be aware of of incongruent fields such as marketing accounting management and regulatory issues Reproductive Endocrinology and Infertility Integrating Modern Clinical and Laboratory Practice was developed to assist the practicing reproductive endocrinologist and or laboratory director by providing an overview of relevant scientific medical and management issues in

a single volume Experts in all pertinent areas present concise practical evidence based summaries of relevant topics producing a key resource for physicians and scientists engaged in this exciting field of medicine As novel technologies continue to amplify Reproductive Endocrinology and Infertility Integrating Modern Clinical and Laboratory Practice offers insight into development and imparts extra confidence to practitioners in handling the many demands presented by their work

**Reprogen-Ethics and the Future of Gender** Frida Simonstein,2009-07-06 Reprogen Ethics and the Future of Gender brings together three tightly related topics which have so far been dealt separately in bioethics assisted reproduction enhancing and gender Part one in this book targets present policies and legislature of assisted reproduction Part two focuses on current views of the ethics of PGD and enhancing Part three tackles the future of gender Part four deals with artificial wombs and ectogenesis The aim of this book is to provide a joint perspective in order to get the big picture Contributors include Matti H yry Tuija Takala S ren Holm David Heyd Daniel Callahan Harriet Bradley Ekaterina Balabanova and others Some chapters in this book will significantly contribute to the current discussion of the topics at stake other chapters will start a discussion on issues that have not yet been discussed Reprogen Ethics and the Future of Gender will certainly appeal to readers who are interested in any of the intersecting topics of assisted reproduction genetic enhancing and gender bioethicists sociologists genetic counsellors gynaecologists legislators and students of the relevant disciplines

*Biennial Review of Infertility* Lori Barnard,Catherine Racowsky,Peter N. Schlegel,Bradley J. van Voorhis,2009-04-20 Infertility is a widespread medical condition As new technologies emerge the rate at which our understanding of reproductive medicine grows can be overwhelming The Biennial Review of Infertility provides the most up to date advances ideas and controversies together in one volume Due to the distinctive nature of infertility a panel of well respected experts strives to present each chapter in a clear manner specifically focused on evidence based medicine The Biennial Review of Infertility presents a balanced view of clinically relevant existing information for the evolving areas Created to provide an ongoing appraisal of current knowledge the Biennial Review of Infertility motivates communication amongst all those working to help couples resolve their infertility

**Cell Lineage and Embryo Patterning** ,2000-12-13 International Review of Cytology presents current advances and comprehensive reviews in cell biology both plant and animal Articles address structure and control of gene expression nucleocytoplasmic interactions control of cell development and differentiation and cell transformation and growth Authored by some of the foremost scientists in the field each volume provides up to date information and directions for future research This volume brings together current information on the localization and roles of RNAs in cell lineage determination and subsequent patterning in embryonic development Guest co editor Lawrence Etkin is one of the leading researchers in molecular genetics of *Xenopus* Key Features A number of important concepts are discussed including How polarity is established during oogenesis How germ cell determinants become organized in the establishment of the germ cell lineage Different strategies used by organisms to establish the germ cell lineage Similarities and differences between the

mechanisms used in embryonic patterning The mechanisms and machinery by which molecules such as RNA become asymmetrically segregated The use of similar signaling pathways in patterning of the dorsal ventral and right left asymmetries embryonic germ layers limb and nervous system The link between fundamental biological processes such as RNA translation and localization in the regulation of axis specification Evo-Devo: Non-model Species in Cell and Developmental Biology Waclaw Tworzydło, Szczepan M. Bilinski, 2019-10-09 Evolutionary developmental biology or evo devo is a field of biological research that compares the underlying mechanisms of developmental processes in different organisms to infer the ancestral condition of these processes and elucidate how they have evolved It addresses questions about the developmental bases of evolutionary changes and evolution of developmental processes The book's content is divided into three parts the first of which discusses the theoretical background of evo devo The second part highlights new and emerging model organisms in the evo devo field while the third and last part explores the evo devo approach in a broad comparative context To the best of our knowledge no other book combines these three evo devo aspects theoretical considerations a comprehensive list of emerging model species and comparative analyses of developmental processes Given its scope the book will offer readers a new perspective on the natural diversity of processes at work in cells and during the development of various animal groups and expand the horizons of seasoned and young researchers alike *Cell-Cell Channels* František Baluška, Dieter Volkmann, Peter W. Barlow, 2007-08-10 In the biological sciences are dominated by the idea that cells are the functionally autonomous physically separated discrete units of life This concept was propounded in the 19th century by discoveries of the cellular structuring of both plants and animals Moreover the apparent autonomy of unicellular eukaryotes as well as the cellular basis of the mammalian brain an organ whose anatomy for a long while defied attempts to validate the idea of the cellular nature of its neurons seemed to provide the final conclusive evidence for the completeness of cell theory a theory which has persisted in an almost dogmatic form up to the present day However it is very obvious that there are numerous observations which indicate that it is not the cells which serve as the basic units of biological life but that this property falls to some other subcellular assemblage To deal with this intricate problem concerning the fundamental unit of living matter we proposed the so called Cell Body concept which in fact develops an exceedingly original idea proposed by Julius Sachs at the end of the 19th century In the case of eukaryotic cells DNA enriched nuclei are intimately associated with a microtubular cytoskeleton In this configuration as a Cell Body these two items comprise the fundamental functional and structural unit of eukaryotic living matter The Cell Body seems to be inherent to all cells in all organisms **Fertility Cryopreservation** Ri-Cheng Chian, Patrick Quinn, 2010-05-13 Protecting the reproductive potential of young patients undergoing cancer therapy is increasingly important With modern treatment protocols 80% of patients can be expected to survive It has been estimated that up to one in 250 young adults will be a survivor of childhood cancer in the future infertility however may be a consequence As a wide range of fertility preservation methods are increasingly offered by clinicians this

systematic and comprehensive textbook dealing with the cryobiology technology and clinical approach to this therapy will be essential reading to infertility specialists embryologists oncologists cryobiologists ObGyns andrologists and urologists with an interest in fertility preservation Fertility Cryopreservation reviews all the techniques of this increasingly important field within reproductive medicine It covers the basic principles of pertinent cryobiology and contains major sections on the different therapies available written by international specialists combining experience from both academic centers and commercial industries

*The Immortal Germline*, 2019-05-31 The Immortal Germline Volume 135 in the Current Topics in Developmental Biology series highlights new advances in the field with this new volume presenting interesting chapters on a variety of topics including Balbiani body germ plasm and polarity Wolbachia and the germline Human germ line biology Reproduction immunity and sperm success Mammalian spermatogenesis Reproduction regeneration and germ cells in planarians Germline stem cell homeostasis Germline soma interactions sex determination Reconstituting the mouse germ cell specification pathway in vitro Maternal Germ line inheritance of mitochondria Transposon strategies and more Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Current Topics in Developmental Biology series Includes the latest information on germ cells

**Mouse Development**

Jacek Z. Kubiak, 2012-08-23 The mouse is a perfect model organism to study mammalian and thus indirectly also human embryology Most scientific achievements that have had an important impact on the understanding of basic mechanisms governing embryo development in humans originated from mouse embryology Stem cell research which now offers the promise of regenerative medicine began with the isolation and culture of mouse embryonic stem cells by Martin Evans who received the Nobel Prize in medicine in 2007 for this achievement and Matthew Kaufman This book provides an overview of mouse development spanning from oocytes before fertilization to the state of the art description of embryonic and adult stem cells The chapters written by the leading specialists in the field deal with the most recent discoveries in this extremely fast developing area of research

Textbook of Oncofertility Research and Practice Teresa K. Woodruff, Divya K. Shah, Wendy S. Vitek, 2019-04-23 Bringing together more than a decade of dedicated investigation and clinical work this unique textbook is a unified comprehensive source for oncofertility research and medical practice that is both authoritative and up to date It will serve as the primary oncofertility reference for the various medical disciplines that must be coordinated to provide care for young cancer patients Moreover it contains case studies that are prismatic for new entrants into the field The book is organized around the major themes of the discipline and includes current research clinical practice emerging technologies and didactic questions and is divided into six thematic sections Fertility implications in both oncologic and non oncologic settings Options for fertility preservation both male and female Care of the oncofertility patient including contraception and pregnancy considerations Oncofertility in clinical practice from setting up a new program to genetic counseling and communication Ethical and legal considerations Advances in the basic science of oncofertility In each chapter bulleted key

learning points and review study questions bookend the text Six additional sections comprised exclusively of clinical case studies illustrating the management of both oncologic and non oncologic conditions add to the pedagogical value of the text Timely and utilizing the best current evidence Textbook of Oncofertility Research and Practice A Multidisciplinary Approach will be an invaluable resource for students residents fellows and professionals in reproductive endocrinology pediatric endocrinology adult and pediatric oncology adult and pediatric urology breast surgery radiation oncology and allied professions where iatrogenic treatments or genetic conditions result in infertility *Asymmetric Cell Division* Alvaro Macieira-Coelho, 2007-04-21 Cell biologists have recently become aware that the asymmetry of cell division is an important regulatory phenomenon in the fate of a cell During development cell diversity originates through asymmetry in the adult organism asymmetric divisions regulate the stem cell reservoir and are a source of the drift that contributes to the aging of organisms with renewable cell compartments Because of the concept of semi conservative DNA synthesis it was thought that the distribution of DNA between daughter cells was symmetric The analysis of the phenomenon in cells during mitosis however revealed the asymmetry in the distribution of the genetic material that creates the drift contributing to aging of mammals On the other hand cancer cells can originate from a deregulation of asymmetry during mitosis in particular during stem cell expansion The book describes the phenomenon in different organisms from plants to animals and addresses its implications for the development of the organism cell differentiation human aging and the biology of cancers **Oocyte Growth and Maturation** T.A. Dettlaff, Sergei G. Vassetzky, 2012-12-06 Studies of oogenesis occupy an important place in current investigations in developmental biology Today no one has any doubt whatsoever that oogenesis is not just the prelude to development but is development itself and a very essential part of it These words of an eminent Soviet scientist B L As taurov taken by T B Aizenshtadt as an epigraph to her chapter in this book make a good epigraph for the entire book It is now clear that during oogenesis not only vast reserves of ribosomes and mitochondria of yolk carbohydrates and lipids and of enzymes for protein and nucleic acid synthesis and for carbohydrate and fat metabolism which ensures the energy supply and metabolism of the oocyte and the developing embryo are formed but also long lived mRNA and proteins are synthesized which determine both the completion of oocyte maturation and the initial stages of embryonic development In the last 15 20 years the use of molecular biology methods electron microscopy autoradiography and microsurgical methods of experimental embryology in studying the pre embryonic development of animals has greatly increased our knowledge of oogenesis This has led to the need to systematize the data obtained to reintroduce old ideas and to review the results obtained by new research trends which have emerged in the last few years and which are of general biological interest Such a task was undertaken in the book *Sovremennyye Problemy Oogeneza* Current Problems of Oogenesis published in 1977 in Russian **The Fish Oocyte** Patrick J. Babin, Joan Cerdà, Esther Lubzens, 2007-08-20 This book presents a comprehensive overview on egg production in fish from the standpoint of the oocyte It covers oocyte development maturation hydration and

fertilization The book places special emphasis on using state of the art tools for discerning the ultra structure of the follicle and genomic proteomic tools to fully understand biological basis of fish reproduction      *Development and Reproduction in Humans and Animal Model Species* Werner A. Mueller, Monika Hassel, Maura Grealy, 2015-01-03 This book describes human development including sexual reproduction and stem cell research with the development of model organisms that are accessible to genetic and experimental analysis in readily understandable texts and 315 multi colored graphics The introductory account of model organisms selected from the entire animal kingdom presents general principles which are then outlined in subsequent chapters devoted to for example sexual development genes controlling development and their contemporary molecular analysis methods production of clones and transgenic animals development of the nervous and circulatory systems regenerative medicine and ageing Finally the evolution of developmental toolkits and novelties is discussed including the genetic basis of the enlargement of the human forebrain Separate boxes are devoted to controversial questions such as the benefits and problems of prenatal diagnostics or the construction of ancient body plans

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