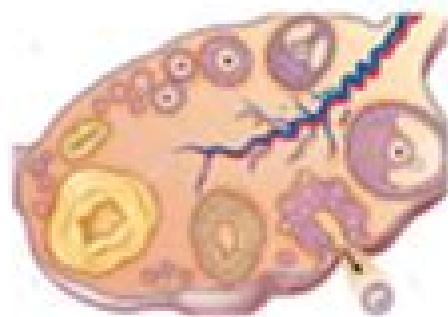


Controlled Ovarian
Stimulation (COS)



Ovary: Immature
oocytes

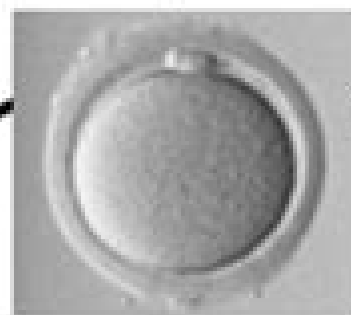
In Vitro Fertilization
and Embryo Culture

Mature MII
Oocyte



IVF

ICSI



In Vivo: Fertilization
Infundibulum

Change in pH, Oxygen,
CO₂ Temperature,
Osmolality

Signal between
embryo and
maternal tissue

Embryo Transfer
Cleavage or
Blastocyst stage

Physiologic
environment
Blastocyst formation



UTERUS

Biological Basis Of Early Human Reproductive Failure Applications To Medically Assisted Conception

**Institute of Medicine and National
Research Council, Institute of
Medicine, Committee on the Basic
Science Foundations of Medically
Assisted Conception**

Biological Basis Of Early Human Reproductive Failure Applications To Medically Assisted Conception:

The Biological Basis of Early Human Reproductive Failure Jonathan Van Blerkom, 1994 This book explains how biological factors can influence the development of human gametes and early embryos and how clinicians and researchers can use this information to select methods of medically assisted conception best suited to infertile patients Because laboratory methods and clinical protocols such as the quality of water and purity of reagents used in culture medium are essential to the success of these procedures there is a tendency to give the less weight to biological factors in explaining the success or failure in achieving pregnancy In redressing the balance this volume shows how molecular cellular genetic endocrinological and immunological factors contribute to the development potential of human gametes and early embryos The chapters are written by authors who are clinicians in medically assisted conception and researchers in the etiology of early reproductive failure Many of the contributors offer advice on how programs could benefit from adopting analytical methods that would determine fertility developmental problems at the gamete level The ability to recognize how these intrinsic factors can affect the early stages of human development provides a more insightful basis for interpreting pregnancy outcome and a more complete understanding of the factors that can and cannot be controlled Reproductive biologists and clinicians involved in medically assisted conception should find the book highly useful An Atlas of Reproductive Physiology in Men B. Hafez, S.E. Hafez, Saad Dean Hafez, 2024-11-01 Meeting the needs of professionals in this growing specialty Atlas of Reproductive Physiology in Men summarizes some of the latest research in the field Packed with tables color illustrations and photographs the book covers laboratory techniques and morphological anatomical biochemical immunological hereditary and microbiological parameters and their clinical applications A comprehensive and well referenced resource the atlas bridges the gap between basic and clinical science **Assisted Reproductive Technology** Christopher J. De Jonge, Christopher L. R. Barratt, 2002-07-11 This text describes the rapid advances that have revolutionized reproductive medicine due to the result of converging and overlapping developments in reproductive biology molecular biology and genetics **Essential IVF** Jonathan van Blerkom, Linda Gregory, 2011-06-28 There is no clearer testament to the importance and efficacy of in vitro fertilization in the treatment of the infertile patient than the fact that over one million babies have been born since its clinical introduction in 1978 The success of this worldwide endeavor has evolved to treat some of the formerly most intractable forms of infertility and requires individuals with different skills and insights whose activities are often compartmentalized into clinical laboratory and research functions The intent of Essential IVF is to present current issues in clinical IVF that encompass the varied activities of those engaged in this enterprise By integrating clinical basic research and laboratory related aspects of human reproduction readers with diverse interests should obtain a more complete understanding of the impact importance and inter relatedness of each in the progress of infertility treatment and an appreciation of whether emerging technologies will or should contribute to this progress in the near future The topics

selected for this volume include research that has begun to explain the origins of differential follicular gamete embryo and uterine competence and specific laboratory procedures and protocols that may have important clinical implications for the generation of developmentally viable embryos. Human embryo research over the past 25 years has not only confirmed that the developmental potential of each embryo is unique but more importantly demonstrated how genetic and nongenetic factors for sperm and oocyte determine embryo competence well before fertilization. Several chapters deal with the origins of normal and compromised gametes and how those with high competence can be identified and isolated for fertilization.

Human Embryonic Stem Cells Ann A. Kiessling, Scott Anderson, 2003. The emerging field of human embryonic stem cell biomedicine crosses many disciplinary boundaries: cell biology, reproductive biology, embryology, molecular biology, endocrinology, immunology, fetal medicine.

Medically Assisted Conception Institute of Medicine and National Research Council, Institute of Medicine, Committee on the Basic Science Foundations of Medically Assisted Conception, 1989-02-01. This book results from a study by a committee of the Institute of Medicine and the National Research Council's Board on Agriculture. The committee examined the scientific foundations of medically assisted conception and developed an agenda for basic research in reproductive and developmental biology that would contribute to advances in the clinical and agricultural practice of in vitro fertilization and embryo transfer. The volume also discusses some barriers to progress in research and ways of lowering them and explains the scientific issues important to ethical decision making.

The Infertility Manual Kamini A. Rao, Peter R. Brinsden, A. Henry Sathananthan, 2005. CD ROM includes video files of material discussed in text.

Fertilization Frank J. Longo, 1997. This book should

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.

Spermatogenesis dan Fertilisasi : Komponen-komponen yang terlibat di dalamnya Muslim Akmal, 2016-10-22. Buku ini dipersembahkan untuk memperkaya literatur bagi mahasiswa Kedokteran Hewan, Kedokteran Biologi, Peternakan, dan ilmu kesehatan lainnya, khususnya yang mengambil mata kuliah Embriologi, Histologi, dan Reproduksi. Semoga buku ajar ini dapat menjadi salah satu buku acuan dalam pengayaan pengajaran, khususnya dalam mata kuliah Embriologi, Histologi, dan Reproduksi. Selain itu, buku ajar ini diharapkan dapat menambah wawasan mahasiswa secara lebih rinci dan mendalam tentang spermatogenesis dan fertilisasi serta komponen-komponen yang terlibat di dalamnya.

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Introduction

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