

## Lab 52: Fertilization and Early Development

### Introduction

Fertilization is the process by which the nuclei of an egg and a sperm cell fuse together to form a new cell, the zygote. This process is essential for the development of a new organism.

During fertilization, the egg and sperm cells fuse together to form a zygote. The egg cell is haploid (2n) and the sperm cell is haploid (n). The zygote is diploid (2n) and contains the genetic material of both parents. The zygote then undergoes cleavage to form a blastocyst, which implants in the uterine wall and develops into an embryo.

Embryonic development is the process by which the zygote develops into a fully formed organism. This process is controlled by a series of genes that regulate the rate and pattern of cell division and differentiation.

### Objectives

The purpose of this lab is to observe the process of fertilization and to describe the early stages of development.

### Materials

1. Microscope
2. Slides and coverslips
3. Fertilized egg cells (from a rabbit or mouse)
4. Sperm cells (from a rabbit or mouse)

# Lab 52 Fertilization And Early Development

**Jianjun Gao**



## Lab 52 Fertilization And Early Development:

*Official Register* Harvard University,1916      **Doctors of Philosophy and Doctors of Science** Harvard University,1916  
*Sea Urchin Development: Cellular and Molecular Aspects* Louis W. Stearns,1974 Good No Highlights No Markup all pages are intact Slight Shelfwear may have the corners slightly dented may have slight color changes slightly damaged spine  
Doctors of philosophy and Doctors of science ... Harvard University 1873-1926 ,1916      **Aerospace Medicine and Biology** ,1991 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA      **Textbook of Assisted Reproductive Techniques Fourth Edition** David. K Gardner,Ariel Weissman,Colin M. Howles,Zeev Shoham,2012-06-27 Textbook of Assisted Reproductive Techniques has become a classic comprehensive reference for the whole team at the IVF clinic The fourth edition comes more conveniently as a set of two separate volumes one for laboratory aspects and the other for clinical applications The text has been extensively revised with the addition of several important new contributions on laboratory aspects including developing techniques such as PICSI IMSI and time lapse imaging The second volume focuses on clinical applications and includes new chapters on lifestyle factors tailored ovarian stimulation frozen thawed embryo transfer viral disease and religious perspectives As before methods protocols and techniques of choice are presented by eminent international experts The two volume set includes Volume One Laboratory Perspectives Volume Two Clinical Perspectives      **Cumulated Index Medicus** ,1991      **Animal Breeding Abstracts** ,1986      **The Biological Bulletin** Frank Rattray Lillie,Carl Richard Moore,Alfred Clarence Redfield,1979 Vols 17 21 105 contain Annual reports of the Marine Biological Laboratory for 1907 08 1952      The Mouse in Biomedical Research Henry L. Foster,J. David Small,James G. Fox,2014-05-10 The Mouse in Biomedical Research Volume III Normative Biology Immunology and Husbandry focuses on the normative biology immunology and husbandry of laboratory mice Topics covered range from gnotobiotics and gastrointestinal microflora to animal health surveillance and health delivery systems along with environmental monitoring The management and design of breeding and research facilities are also discussed Comprised of 18 chapters this volume begins with an overview of studies involving gnotobiotic mice the induction of gnotobiosis and microbiological testing of gnotobiotic animals Maintenance of breeding colonies of gnotobiotic animals is also considered together with the shipment of gnotobiotics and laboratory facilities for using gnotobiotics The reader is then introduced to management and design of breeding and research facilities for gnotobiotic mice practical factors associated with providing adequate nutrition for laboratory mice and environmental and equipment monitoring Subsequent chapters deal with the basic biology of the mouse including anatomy embryology reproductive physiology physiology endocrinology hematology clinical biochemistry and gastrointestinal microflora The book also examines immunoglobulins and immunoglobulin genes lymphocyte immunogenetics immune response disorders and biotechnology and surgical techniques

This monograph will be useful to biologists immunologists researchers and others those who use mice in the laboratory or are concerned with the production and maintenance of colonies of mice

**Marine Ecology: a Comprehensive, Integrated Treatise on Life in Oceans and Coastal Waters: Cultivation. 3 v** Otto Kinne,1970

**Bibliography of Reproduction** ,1988

Biological Abstracts ,1928

**Catalogue of Scientific Papers** Royal Society (Great Britain),1916

**Catalogue of Scientific Papers (1800-1900): ser. 4 , 1884-1900** Royal Society (Great Britain),1916

**American Men and Women of Science** ,1986

**Journal of Embryology and Experimental Morphology** ,1969

**Public Health Service publication. no. 658-62, 1959-62** ,1959

National Union Catalog ,1973 Includes entries for maps and atlases

Abridged Index Medicus ,1997-05

## Reviewing **Lab 52 Fertilization And Early Development**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Lab 52 Fertilization And Early Development**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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