



Can you recall?

1. Enlist the various life processes. Name the life process which is responsible for continuation of the human race.
2. What are the common methods of reproduction in the unicellular organisms like *Euglena*, *Amoeba* and *Paramecium*?
3. What type of asexual reproduction occurs in *Hydra*?
4. What are the different methods of reproduction in animals?

We know that reproduction is one of the major life processes of any living organism. It helps in maintaining the continuity of the species. **Reproduction** is defined as the biological process of formation of new life forms from pre-existing similar life. It thus becomes a vital process which enables the species to survive over a long period, even though the individuals or organisms live naturally for a limited period of time i.e. their life span. In this chapter, we will learn about the various methods of reproduction in animals the human reproductive system, gametogenesis and fertilization, early embryology, parturition and reproductive health.

Reproduction in animals occurs mainly by two methods i.e. asexual and sexual.

2.1 Asexual Reproduction in animals :

It is a common method among lower animals. It does not involve meiosis nor the gamete formation and fusion. The formation of progeny is by a single parent only and does not involve both the sexes, so it is called asexual reproduction. The progeny or daughter cells are genetically identical to the single parent and are also referred to as **clones**. The lower animals reproduce asexually by gemmule formation and budding.

Gemmule Formation:

Gemmule is an internal bud formed only in sponges. It has asexually produced mass or aggregation of dormant cells, the archaeocytes capable of developing into a new organism. The archaeocytes get coated by a thick resistant layer of secretion by amoebocytes. The gemmule is formed to overcome unfavourable conditions. On return of favourable conditions of water and temperature, the gemmules hatch and develop into a new individual. e.g. *Spongilla*.

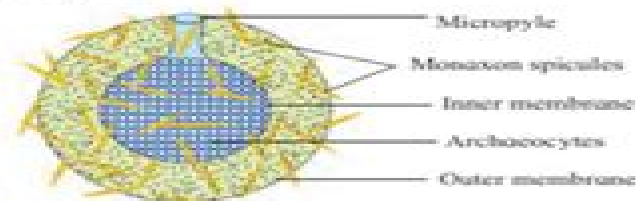


Fig. 2.1 : Gemmule

Budding:

It is a simple method of asexual reproduction normally occurring in favourable conditions. It is seen in a variety of animals like coelenterates (*Hydra* and corals) and in some colonial ascidians. In *Hydra*, a small outgrowth (bud) is produced towards the basal end of the body.

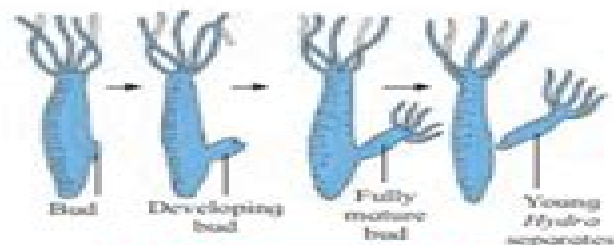


Fig. 2.2 : Budding in *Hydra*

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Stem Cells in Human Reproduction Carlos Simón, Antonio Pellicer, 2009-09-18 Following a successful first edition this new book updates the revolutionary advances in stem cell science that may potentially impact human reproductive medicine The contents cover the production and regeneration of female and male germ cells trophoblasts and endometrium from human embryonic and adult stem cells New developments in hESC d *Catalog, Educational Motion Pictures* ,1980

Handbook of Stem Cells, Two-Volume Set Robert Lanza, Catherine Verfaillie, Irving Weissman, Michael D. West, Helen Blau, John Gearhart, Brigid Hogan, Douglas Melton, Malcolm Moore, Roger Pedersen, E. Donnall Thomas, James A. Thomson, 2004-10-05 New discoveries in the field of stem cell research have frequently appeared in the news and in scientific literature Research in this area promises to lead to new therapies for cancer heart disease diabetes and a wide variety of other diseases This two volume reference integrates this exciting area of biology combining the prerequisites for a general understanding of adult and embryonic stem cells the tools methods and experimental protocols needed to study and characterize stem cells and progenitor populations as well as a presentation by the world s experts of what is currently known about each specific organ system The editors of the Handbook of Stem Cells include Robert Lanza Helen Blau John Gearhart Brigid Hogan Douglas Melton Malcolm Moore Roger Pedersen E Donnall Thomas James Thomson Catherine Verfaillie Irving Weissman and Michael West The Editorial Board includes W French Anderson Peter Andrews Anthony Atala Jose Cibelli Giulio Cossu Robert Edwards Martin Evans Elaine Fuchs Margaret Fuller Fred Gage Richard Gardner Margaret Goodell Ronald Green William Haseltine Joseph Itskovitz Eldor Rudolf Jaenisch Ihor Lemischka Dame Anne McLaren Richard Mulligan Stuart Orkin Martin Pera Benjamin Reubinoff Janet Rossant Hans Scholer Austin Smith Evan Snyder Davor Solter Alan Trounson and Leonard Zon This comprehensive set should be a much needed addition to the library of students and researchers alike Provides comprehensive coverage on this highly topical subject Contains contributions by the foremost authorities and premiere names in the field of stem cell research The accompanying CD ROM includes over 250 color figures

Educational Motion Pictures ,1980 *Regulatory Aspects of Gene Therapy and Cell Therapy Products* Maria Cristina Galli, 2023-08-01 This book discusses the different regulatory pathways for Advanced Therapy Medicinal Products implemented by national agencies in North and South America Europe and Asia and by international bodies in the effort of international harmonization This book represents an update of the first edition as it covers regulatory novelties and accumulated experience in the regions already addressed In addition this new edition offers a wider international perspective new chapters are included covering Advanced Therapy Medicinal Products regulations in India Malaysia Spain and Thailand the European Pharmacopoeia texts for gene therapy medicinal products as well as international harmonization programs Each chapter authored by experts from various regulatory bodies throughout the international community walks the reader through the applications of nonclinical research to translational clinical research to licensure and therapeutic use of these

innovative products More specifically each chapter offers insights into fundamental considerations that are essential for developers of Advanced Therapy Medicinal Products in the areas of product quality pharmacology and toxicology clinical trial design and HTA pathways as well as pertinent must know guidelines and regulations Regulatory Aspects of Gene Therapy and Cell Therapy Products a Global Perspective is part of the American Society of Gene Cell Therapy sub series of the highly successful Advances in Experimental Medicine and Biology series It is essential reading for graduate students clinicians and researchers interested in gene and cell therapy and the regulation of pharmaceuticals Educational Motion Pictures ...

Catalog ,1963 *A Roadmap to combat postpartum haemorrhage between 2023 and 2030* World Health

Organization,2023-10-11 The goal of this Roadmap to combat postpartum haemorrhage is to outline global research normative implementation and advocacy goals activities and milestones from 2023 to 2030 to accelerate progress on improving maternal health and wellbeing toward achieving the SDG 3 1 target **Ethnic Differences in Fertility and**

Assisted Reproduction Fady I. Sharara,2013-07-17 Over the past 10 years studies have shown that the rates of fertility vary in different ethnic groups Ethnic differences also play a significant role in the outcome of assisted reproductive technology ART cycles In the United States minority groups African Americans Hispanics mainly Mexicans and Central Americans East Asians Chinese Japanese Koreans Philipppinos and South Asians Indians Pakistanis and Bengalis have significantly lower chances of live births compared to Caucasian women Birth outcome data collected by the Society for Assisted Reproductive Technology shows a worsening trend in conception rates between the years 1999 2000 and 2004 2006 raising more concern that the disparity in fertility rates between minority groups and white women is widening over time This comprehensive book serves to answer the questions that arise when managing infertility in a multi ethnic population An expert assembly of key leaders in the field of reproductive medicine imparts insight and clinical experience in order to identify and analyze the possible causes of racial disparities in fertility outcome Some of the reviewed causes include higher Body Mass Index BMI tubal diseases metabolic syndrome and fibroids in African Americans tubal disease and higher early pregnancy loss in Hispanics higher incidence of diminished ovarian reserve and lower BMI in East Asians and higher incidence of polycystic ovarian disease PCOS in South Asians The book also provides a review of data on access to care and ART services in developing countries A thoughtful combination of evidence based medicine and advanced treatment options this book is sure to distinguish itself as the definitive reference on ethnic differences in assisted reproduction **Nursing for Public**

Health: Promotion, Principles and Practice Paul Linsley,Roslyn Kane,Sara Owen,2011-02-17 Nursing for Public Health reflects the growing need for all nurses to promote the health of patients as well as treating illnesses This textbook examines core policies theories and models of public health alongside nursing skills and interventions for health issues such as obesity smoking and sexual health **Tissue and Cell Processing** Deirdre Fehily,Scott A. Brubaker,John N. Kearney,Lloyd

Wolfenbarger, Jr.,2012-06-11 By presenting the latest technological advances and growing national and international

regulation this new book explores state of the art developments in the challenging field of tissue and cell processing It provides a guide to easier and safer practice in operational principles of preservation decontamination and sterilization Nearly half of the book is devoted completely to tissue or cell specific issues relating to processing With lists of learning points and case studies which consist of sample processing protocols descriptions of where processing went wrong sample risk assessments or validation studies the authors help you find specific information fast

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