

Sex Cells Result In What Phase

Chromosomes, Sex-cells, and Evolution in a Mammal - Phillip V. Tobias 1956

How Cell Processes Are Regulated - Clementine Tucker 2015-01-01

A cell is the smallest unit of living matter that can exist by itself. Some organisms, such as bacteria, are made up of only one single cell. As for other organisms, such as humans and redwood trees, billions of cells are required. That means that those multitudinous cells have to work together to enable people to do things such as walk, talk, and eat, and for trees to send down roots, sprout branches, and grow leaves. Readers of this authoritative book will discover how such cells function, get energy, grow, reproduce, specialize, and communicate.

Meiosis and Gametogenesis - 1997-11-24

In spite of the fact that the process of meiosis is fundamental to inheritance, surprisingly little is understood about how it actually occurs. There has recently been a flurry of research activity in this area and this volume summarizes the advances coming from this work. All authors are recognized and respected research scientists at the forefront of research in meiosis. Of particular interest is the emphasis in this volume on meiosis in the context of gametogenesis in higher eukaryotic organisms, backed up by chapters on meiotic mechanisms in other model organisms. The focus is on modern molecular and cytological techniques and how these have elucidated fundamental mechanisms of meiosis. Authors provide easy access to the literature for those who want to pursue topics in greater depth, but reviews are comprehensive so that this book may become a standard reference. Key Features * Comprehensive reviews that, taken together, provide up-to-date coverage of a rapidly moving field * Features new and unpublished information * Integrates research in diverse organisms to present an overview of common threads in mechanisms of meiosis * Includes thoughtful consideration of areas for future investigation

Exploring the Biological Contributions to Human Health - Institute of Medicine 2001-07-02

It's obvious why only men develop prostate cancer and why only women get ovarian cancer. But it is not obvious why women are more likely to recover language ability after a stroke than men or why women are more apt to develop autoimmune diseases such as lupus. Sex differences in health throughout the lifespan have been documented. Exploring the Biological Contributions to Human Health begins to snap the pieces of the puzzle into place so that this knowledge can be used to improve health for both sexes. From behavior and cognition to metabolism and response to chemicals and infectious organisms, this book explores the health impact of sex (being male or female, according to reproductive organs and chromosomes) and gender (one's sense of self as male or female in society). Exploring the Biological Contributions to Human Health discusses basic biochemical differences in the cells of males and females and health variability between the sexes from conception throughout life. The book identifies key research needs and opportunities and addresses barriers to research. Exploring the Biological Contributions to Human Health will be important to health policy makers, basic, applied, and clinical researchers, educators, providers, and journalists-while being very accessible to interested lay readers.

Human Reproductive and Prenatal Genetics - Peter C.K. Leung 2023-03-22

Human Reproductive and Prenatal Genetics, Second Edition provides application-driven coverage of key topics in human reproductive and prenatal genetics, including genetic control underlying the development of the reproductive tracts and gametogenesis, the genetics of fertilization and implantation, the genetic basis of female and male infertility, as well as genetic and epigenetic aspects of assisted reproduction. Also examined are the genetics and epigenetics of the placenta in normal and abnormal pregnancy, preimplantation genetic diagnosis and screening, and cutting-edge advances in noninvasive prenatal screening, prenatal genetic counseling, and bioethical and medicolegal aspects of relevance in the lab and clinic. This new edition has been fully revised to address new and evolving technologies in human reproductive genetics, with new chapters added on chromatin landscapes and sex determination, genetic alterations of placental development and preeclampsia, metabolism and inflammation in PCOS, pre-implantational genetic testing, maternal

genetic disorders, bioethics, and future applications. Features chapter contributions from leading international scientists and clinicians Provides in-depth coverage of key topics in human reproductive and prenatal genetics, including genetic controls, fertilization, placental development, embryo implantation, in vitro culture of the human embryo for the study of post-implantation development, and more Identifies how researchers and clinicians can implement the latest genetic, epigenetic, and -omics-based approaches Includes all new chapters on evolving technologies and recent genetic discoveries of relevance to reproductive medicine

Sexual Plant Reproduction - Mauro Cresti 2012-12-06

In recent years there has been a growing awareness of the importance of reproductive biology to crop production and there has been a tremendous increase in research on reproductive structures of higher plants. Presented here is a wide information of different aspects of micro- and macrosporogenesis, pollen-stigma interaction and recognition, pollen tube growth, cytoskeleton, in vitro and in vivo gamete fusion, and incompatibility. The most advanced techniques employed in studies on reproductive biology of higher plants are described in detail.

Anatomy and Physiology : The Reproductive System - Rumi Michael Leigh

This book will explain the definition, functions, organs and parts of the reproductive system, including the male and female reproductive system. It will make you discover the reproductive system in its entirety. All in the form of questions and answers to facilitate understanding of the subject.

Cell Regulation - Lois Sakany 2004-12-15

Discusses the function of cells, how they grow, and the parts they play in reproduction.

Molecular Biology of the Cell - Bruce Alberts 2004

Cells: Molecules and Mechanisms - Eric Wong 2009

"Yet another cell and molecular biology book? At the very least, you would think that if I was going to write a textbook, I should write one in an area that really needs one instead of a subject that already has multiple excellent and definitive books. So, why write this book, then? First, it's a course that I have enjoyed teaching for many years, so I am very familiar with what a student really needs to take away from this class within the time constraints of a semester. Second, because it is a course that many students take, there is a greater opportunity to make an impact on more students' pocketbooks than if I were to start off writing a book for a highly specialized upper-level course. And finally, it was fun to research and write, and can be revised easily for inclusion as part of our next textbook, High School Biology."--Open Textbook Library.

The World of Genetics - Lynn Van Gorp 2007-12-14

To understand why humans are the way they are, look at cells-especially the material in the center, called chromosomes. People have 23 pairs of chromosomes, so each cell has 46 in all. Parents pass chromosomes to their children. DNA carries the genetic information in alleles and is the blueprint for the cells of an organism. DNA tells one's body how to put certain materials together to produce certain traits.

How Cells Divide, Reproduce, and Specialize - Alyssa Simon 2015-01-01

Cells are the building blocks of life and diversify in amazing ways to create every form of living thing. This authoritative guide covers the basics of what a cell is and how cells reproduce and change in order to form different life forms and perform specialized functions. It also covers how scientists have learned to manipulate and regenerate cells, leading to advances in medicine. The controversy surrounding cloning technology is discussed, as is the exciting future of cytology and cell biology. The most likely future frontiers of innovation and discovery are outlined in enthralling detail.

All About Mitosis and Meiosis - Elizabeth Cregan 2007-12-14

Many organisms are multicellular, which means they have many cells-even trillions! The cells work together to help the organism do things such as create energy, reproduce, and get rid of waste.

Principles of Biology - Lisa Bartee 2017

The Principles of Biology sequence (BI 211, 212 and 213) introduces biology as a scientific discipline for students planning to major in biology and other science disciplines. Laboratories and classroom activities

introduce techniques used to study biological processes and provide opportunities for students to develop their ability to conduct research.

[All About Mitosis and Meiosis](#) - Elizabeth Cregan 2007-12-14

What is the difference between mitosis and meiosis? Children will learn the answer through this stimulating book that features stunning images and photos, captivating facts, engaging sidebars, and easy-to-read text. The steps of mitosis and meiosis--including interphase, prophase, metaphase, anaphase, telophase, cytokinesis, and meiosis I and meiosis II--are explained in easy-to-read text. The accessible glossary and index ensure that readers have the tools they need to better understand the content. Featuring an engaging lab activity, this book will have readers captivated and delighted from beginning to end!

[The Biology of Reproduction](#) - Giuseppe Fusco 2019-10-10

A look into the phenomena of sex and reproduction in all organisms, taking an innovative, unified and comprehensive approach.

[The Basics of Cell Biology](#) - Anne Wanjie 2013-07-15

This text provides readers with a comprehensive study of the mechanics of cell biology that aligns with Core Curriculum requirements in science. Topics covered range from the different types of cells-- plant and animal, eukaryote and prokaryote, and stem cells--to the components of the cell such as the cell wall, DNA, and plasma to cell locomotion and the cell cycle including cell division, mitosis, and meiosis. Finally, the topic of cancer, when cells divide uncontrollably, is addressed. In conclusion, the title offers a biography section of the pioneers of DNA research, Francis Crick, Rosalind Franklin, and James Watson, whose research led us to understand the structure of DNA. Along with authoritative content, this title offers eye-catching and informative images and illustrations to help keep readers engaged.

[Meiosis Science Learning Guide](#) - NewPath Learning 2014-03-01

The Meiosis: Creating Sex Cells Student Learning Guide includes self-directed readings, easy-to-follow illustrated explanations, guiding questions, inquiry-based activities, a lab investigation, key vocabulary review and assessment review questions, along with a post-test. It covers the following standards-aligned concepts: Sexual Reproduction; Meiosis Overview; DNA Replication; Meiosis I; Meiosis II; Crossing-over; Comparing Mitosis & Meiosis; Identifying Stages of Meiosis; and Mitosis: the Cell Cycle. Aligned to Next Generation Science Standards (NGSS) and other state standards.

[Concepts of Biology](#) - Samantha Fowler 2018-01-07

Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an

important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand. We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

[Reproductive Tissue Banking](#) - Armand M. Karow 1997-03-20

Reproductive technologies to assist in both human conception and animal breeding are increasingly in demand. These technologies, along with the advent of tissue engineering, have propelled the challenges of tissue collection, preservation, and banking to the research forefront. Using examples drawn from reproductive technologies, Reproductive Tissue Banking presents the scientific principles underlying tissue banking. These examples serve as models for the technology of banking other living tissues, including blood, bone marrow, cornea, and skin. In discussing research emerging from their laboratories and those of others, the authors meld fundamentals of biology, chemistry, and physics with the latest discoveries in the field to give the reader profound insight into research directions and ethical considerations crucial to the advancement of tissue banking. With its emphasis on human applications and concerns, this book provides a valuable supplement to short courses on tissue preservation and tissue engineering. Researchers in reproductive medicine, animal and veterinary science, and cryobiology will find this book, with its extensive bibliography, a very handy reference. * * Written by leading international researchers * Provides insightful discussions on reproductive tissue banking * Presents comprehensive citations to relevant literature, both current and historic * Discusses in vitro preservation of spermatozoa, oocytes, embryos, and gonadal tissues of mammals * Contains coverage of ethical considerations from a discussion of the splitting of embryos to an exploration of the protection of biodiversity

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