

Sex Cells Undergo

Cells: Cell Reproduction - Angela Wagner 2013-04-01

****This is the chapter slice "Cell Reproduction" from the full lesson plan "Cells"**. Cells are the building blocks of life. We take you from the parts of plant and animal cells and what they do to single-celled and multi-cellular organisms. Using simplified language and vocabulary concepts we discover human cell reproduction as well as diffusion and osmosis. Our resource provides ready-to-use information and activities for remedial students using simplified language and vocabulary. Ready to use reading passages, student activities and color mini posters, our resource is effective for a whole-class, small group and independent work. All of our content meets the Common Core State Standards and are written to Bloom's Taxonomy and STEM initiatives.**

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.

Sex Cells - Rene Almeling 2011-09-20

"What happens when sex cells sell? Do human bodies become degraded objects of commerce? Challenging simplistic accounts of commodification, Almeling offers a compelling analysis of contemporary markets for eggs and sperm. A superb contribution to 21st century economic sociology." -Viviana A. Zelizer, author of *Economic Lives: How Culture Shapes the Economy* "This is a highly informative book. Almeling provides a balanced approach to this highly controversial subject. Although you might be conflicted by the ethical issues, you will definitely be extremely well-informed when you finish this book." -Alan H. DeCherney, MD, National Institute of Child Health and Human Development "Almeling offers a wonderfully thoughtful analysis and an innovative cultural lens for viewing the gendered lives of sex cells and their commodification in the contemporary USA." -Rayna Rapp, author of *Testing Women, Testing the Fetus: The Impact of Amniocentesis in America*

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.

How We Do It - Robert Martin 2013-06-11

Despite the widespread belief that natural is better when it comes to sex, pregnancy, and parenting, most of us have no idea what "natural" really means; the origins of our reproductive lives remain a mystery. Why are a quarter of a billion sperm cells needed to fertilize one egg? Are women really fertile for only a few days each month? How long should babies be breast-fed? In *How We Do It*, primatologist Robert Martin draws on forty years of research to locate the roots of everything from our sex cells to the way we care for newborns. He examines the procreative history of humans as well as that of our primate kin to reveal what's really natural when it comes to making and raising babies, and distinguish which behaviors we ought to continue -- and which we should not. Although it's not realistic to raise our children like our ancestors did, Martin's investigation reveals surprising consequences of -- and suggests ways to improve upon -- the way we do things now. For instance, he explains why choosing a midwife rather than an obstetrician may have a greater impact than we think on our birthing experience, examines the advantages of breast-feeding for both mothers and babies, and suggests why babies may be ready for toilet training far

earlier than is commonly practiced. *How We Do It* offers much-needed context for our reproductive and child-rearing practices, and shows that once we understand our evolutionary past, we can consider what worked, what didn't, and what it all means for the future of our species.

Stem Cells in Reproductive Medicine - Carlos Simón 2013-07-04

Stem Cells in Reproductive Medicine is essential reading for those keeping abreast of practical developments in this rapidly moving field.

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.

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.

Molecular Biology of the Cell - Bruce Alberts 2004

Principles of Biology - Lisa Barteo 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.

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.

Determining Requirements for Meiotic Pairing in *Drosophila Melanogaster* Spermatogenesis - Christopher Andrew Hylton 2020

"Diploid germline cells must undergo two consecutive meiotic divisions before differentiating as haploid sex cells. During meiosis I, homologs pair and remain conjoined until segregation at anaphase. *Drosophila melanogaster* spermatocytes are unique in that the canonical events of meiosis I including synaptonemal complex (SC) formation, double-strand DNA breaks, and chiasmata are absent. Sex chromosomes pair at intergenic spacer sequences within the rDNA. Autosomes pair at numerous euchromatic homologies, but not at heterochromatin, suggesting that pairing may be limited to specific sequences. However, previous work generated from genetic segregation assays or observations of late prophase I/prometaphase I chromosome associations fail to differentiate pairing from maintenance of pairing (conjunction). To begin, the capability of X euchromatin to pair and conjoin with the Y chromosome was examined using an rDNA-deficient X and a series of Dp(1;Y) chromosomes. Genetic assays determined that duplicated X euchromatin can substitute for endogenous rDNA pairing sites; however, segregation was not proportional to homology length. Using fluorescent in situ hybridization (FISH) to early prophase I spermatocytes, pairing was shown to occur with high fidelity at all homologies tested. By comparing genetic and cytological data, we determined that centromere proximal pairings were best at segregation. Segregation was dependent on the conjunction protein Stromalin in Meiosis while the autosomal-specific Teflon was dispensable. Next, the ability of the X euchromatic homology to pair with and segregate from the heterolog chromosome 3 was examined using Dp(1;3) chromosomes containing X euchromatin duplications ranging in size from 21 to 177 Kb. In contrast to duplications of X euchromatin on the Y, duplications of X material on chromosome 3 are not as effective in directing segregation. In early prophase I, however, homologies on the X and chromosome 3 pair. Pairing between homologs is normally released at S2b of prophase I. Using a control probe to only select cells where chromosome 2 has already unpaired, the X and Dp(1;3) was unpaired in a significantly higher number of cells than was the X and Dp(1;Y). This result suggests different mechanisms exist to manage pairings between homologs and pairings between heterologs. The FISH pairing assay was used to score meiotic I nondisjunction (NDJ) and compared to genetic NDJ. Some NDJ frequencies were significantly different between the two methods. Data suggests genetic NDJ calculations are not always a true measure of the meiotic defect. The FISH pairing assay was also used to investigate an uncharacterized male meiotic mutant since the assay provides a rapid identification of the defective meiotic stage. FISH identified a unique defect that caused sister chromatids to segregate to opposite poles during meiosis I. This identification would not have been possible by only monitoring the outcome of meiosis through genetic crosses. The molecular techniques and approaches described within are suggested to be useful in defining the mechanisms regulating the establishment of conjunction and segregation between paired sequences."-- Abstract from author supplied metadata. [This abstract has been edited to remove characters that will not display in this system. Please see the PDF for the full abstract.]

Lost Sex - Isa Schön 2009-09-22

Sex is the queen of problems in evolutionary biology. Generations of researchers have investigated one of the last remaining evolutionary paradoxes: why sex exists at all. Given that sexual reproduction is costly from an evolutionary point of view, one could wonder why not all animals and plants reproduce asexually. Dozens of contemporary hypotheses attempt to explain the prevalence of sex and its advantages and predict the early extinction of fully asexual lineages. The major theme of this book is: what is the fate of animal and plant groups in which sex is lost? Initial chapters discuss theory behind asexual life: what major disadvantages do asexual groups have to face, what are the genetic and ecological consequences and what does this theory predict for more applied aspects of asexual life, for example in agricultural pests, diseases as well as in cultural crops such as grapes. Cases studies in many animals (focusing on both invertebrates and vertebrates) and plants reveal parallel, but also singularly novel adaptations to the absence of meiosis and syngamy. And last but not least, are asexuals really doomed to early extinction or do genuine ancient

asexuals exist? This book assembles contributions from the most important research groups dealing with asexual evolution in eukaryotes. It is a milestone in research on parthenogenesis and will be useful to undergraduate as well as graduate students and to senior researchers in all fields of evolutionary biology, as the paradox of sex remains its queen of problems.

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.

Inanimate Life - George M. Briggs 2021-07-16

Sex and the Origins of Death - William R. Clark 1998-06-11

Death, for bacteria, is not inevitable. Protect a bacterium from predators, and provide it with adequate food and space to grow, and it would continue living--and reproducing asexually--forever. But a paramecium (a slightly more advanced single-cell organism), under the same ideal conditions, would stop dividing after about 200 generations--and die. Death, for paramecia and their offspring, is inevitable. Unless they have sex. If at any point during that 200 or so generations, two of the progeny of our paramecium have sex, their clock will be reset to zero. They and their progeny are granted another 200 generations. Those who fail to have sex eventually die. Immortality for bacteria is automatic; for all other living beings--including humans--immortality depends on having sex. But why is this so? Why must death be inevitable? And what is the connection between death and sexual reproduction? In *Sex and the Origins of Death*, William R. Clark looks at life and death at the level of the cell, as he addresses such profound questions as why we age, why death exists, and why death and sex go hand in hand. Clark reveals that there are in fact two kinds of cell death--accidental death, caused by extreme cold or heat, starvation, or physical destruction, and "programmed cell death," initiated by codes embedded in our DNA. (Bacteria have no such codes.) We learn that every cell in our body has a self-destruct program embedded into it and that cell suicide is in fact a fairly commonplace event. We also discover that virtually every aspect of a cell's life is regulated by its DNA, including its own death, that the span of life is genetically determined (identical twins on average die 36 months apart, randomly selected siblings 106 months apart), that human tissue in culture will divide some 50 times and then die (an important exception being tumor cells, which divide indefinitely). But why do our cells have such programs? Why must we die? To shed light on this question, Clark reaches far back in evolutionary history, to the moment when "inevitable death" (death from aging) first appeared. For cells during the first billion years, death, when it occurred, was accidental; there was nothing programmed into them that said they must die. But fierce competition gradually led to multicellular animals--size being an advantage against predators--and with this change came cell specialization and, most important, germ cells in which reproductive DNA was segregated. When sexual reproduction evolved, it became the dominant form of reproduction on the planet, in part because mixing DNA from two individuals corrects errors that have crept into the code. But this improved DNA made DNA in the other (somatic) cells not only superfluous, but dangerous, because somatic DNA might harbor mutations. Nature's solution to this danger, Clark concludes, was programmed death--the somatic cells must die. Unfortunately, we are the somatic cells. Death is necessary to exploit to the fullest the advantages of sexual reproduction. In *Sex and the Origins of Death*, William Clark ranges far and wide over fascinating terrain. Whether describing a 62-year-old man having a major heart attack (and how his myocardial cells rupture and die), or discussing curious life-forms that defy any definition of life (including bacterial spores, which can regenerate after decades of inactivity, and viruses, which are nothing more than DNA or RNA wrapped in protein), this brilliant, profound volume illuminates the miraculous workings of life at its most elemental level and finds in these tiny spaces the answers to some of our largest questions.

Sex and Death in Protozoa - Graham Bell 1988

Is ageing inevitable, or can senescence and death be evaded? Large animals and plants always age if they live long enough; even individual cells from their bodies cannot continue living and dividing indefinitely. Whether or not single-celled organisms also age and die, and what relation sex bore to the process of senescence, was the subject of vigorous debate and experimentation early in the last century. In this book, Dr Bell disinters and reanalyzes these forgotten experiments, and argues that protozoan lineages do indeed

senesce, as the result of an accumulated load of mutations that can be shed only through sexual reproduction. This unexpected connection between sex and death is the central theme of a book that will interest all students of evolutionary biology, sexuality and senescence.

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

Textbook of Human Reproductive Genetics - Karen Sermon 2014-04-10

What happens with our genome and epigenome in the first fundamental days of our development? How can this be analysed? What do we need to know when faced with patients' questions about their own infertility, or how to prevent the birth of affected children? For the first time, this book brings together both scientists'

and clinicians' viewpoints on human reproductive genetics, making for a more comprehensive discussion of interest to ART professionals and developmental biologists. With worldwide leaders in this burgeoning field guiding the reader through from the basics to the most exciting recent discoveries, this book presents the wider picture of how reproductive medicine and biology links with genetics. The editors also address the new challenges raised in how to treat and counsel patients at fertility and genetic clinics, as well as eliciting vivid bioethical debates. This book brings together genetics, reproductive biology and medicine for practitioners and geneticists.

Dazl Regulates Mouse Embryonic Germ Cell Development - Mark E. Gill 2010

In the mouse, germ cells can undergo differentiation to become either oocytes or spermatozoa in response to sex of their gonadal environment. The nature of the germ cell-intrinsic aspects of this signaling have not been well studied. The earliest known sex-specific difference in germ cells is the initiation of meiosis in female, but not male, embryonic germ cells. Experiments were performed showing that germ cells of both sexes transit through a state, the meiosis competent germ cell, that is required for initiation of meiosis. Acquisition of this state requires the function of the germ cell-specific RNA binding protein DAZL. The sufficiency for the absence of meiosis to drive male germ cell differentiation was then tested by examining non-meiotic XX germ cells in the Dazl-deficient ovary. These cells did not exhibit male differentiation indicating that the absence of meiosis is not sufficient for male differentiation. XX Dazl-deficient germ cells also failed to exhibit normal female differentiation. In addition, XY Dazl-deficient germ cells do not display characteristics of either male or female germ cells. Taken together, these results indicate that germ cells must first undergo a sex non-specific differentiation step prior to acquiring sexual fate.

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