

Cell Reproduction **Holt Interactive Lab**

Topic 1: Binary Fission

1. Why can cell division also be called cell reproduction?
2. What happens during cell division?
3. What role does cell division play in a single-celled organism, such as bacterium?
4. How is cell division important to multicellular organisms, such as plants and animals?
5. How does the process of binary fission occur in bacteria?

Topic 2: Cell Cycle

1. How does the time it takes for cell division to occur in prokaryotes compare with the time it takes in eukaryotes?
2. What are the two main phases of the cell cycle?
3. During which phase of the cell cycle does cell division occur?
4. What are the three parts of interphase?
5. How can the events of interphase be described without using the terms you identified in question 4?

Topic 4: Chromosomes

1. What materials make up a eukaryotic chromosome?
2. During what state of the cell cycle are eukaryotic chromosomes visible as distinct structures?
3. How does a eukaryotic chromosome look when it first becomes visible as a distinct structure?
4. How do chromatids form?
5. How does the genetic information carried by the two chromatids of a chromosome compare?

Topic 5: Meiosis

1. What happens during mitosis?
2. What happens during cytokinesis?
3. How are mitosis and cytokinesis important to living things?
4. How are mitosis and cytokinesis alike in animal cells and plant cells?
5. How are mitosis and cytokinesis different in animal cells and plant cells?

Topic 6: Meiosis

1. What happens during meiosis?
2. What are some similarities between meiosis I and meiosis II?
3. What is the main difference between meiosis I and meiosis II?
4. Which process, mitosis or meiosis, is involved in the growth of an organism?
5. Which process, mitosis or meiosis, is involved in the formation of gametes?

Topic 6: Gamete Production

1. How is meiosis involved in sexual reproduction?
2. How are spermatogenesis and oogenesis similar in humans?

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IM Harris



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Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 **Holt Biology**, 2004 *Holt Biology: Meiosis and sexual reproduction*, 2003 **The AGT Cytogenetics Laboratory Manual** Marilyn S. Arsham, Margaret J. Barch, Helen J. Lawce, 2017-04-24 Cytogenetics is the study of chromosome morphology structure pathology function and behavior The field has evolved to embrace molecular cytogenetic changes now termed cytogenomics Cytogeneticists utilize an assortment of procedures to investigate the full complement of chromosomes and or a targeted region within a specific chromosome in metaphase or interphase Tools include routine analysis of G banded chromosomes specialized stains that address specific chromosomal structures and molecular probes such as fluorescence in situ hybridization FISH and chromosome microarray analysis which employ a variety of methods to highlight a region as small as a single specific genetic sequence under investigation The AGT Cytogenetics Laboratory Manual Fourth Edition offers a comprehensive description of the diagnostic tests offered by the clinical laboratory and explains the science behind them One of the most valuable assets is its rich compilation of laboratory tested protocols currently being used in leading laboratories along with practical advice for nearly every area of interest to cytogeneticists In addition to covering essential topics that have been the backbone of cytogenetics for over 60 years such as the basic components of a cell use of a microscope human tissue processing for cytogenetic analysis prenatal constitutional and neoplastic laboratory safety and the mechanisms behind chromosome rearrangement and aneuploidy this edition introduces new and expanded chapters by experts in the field Some of these new topics include a unique collection of chromosome heteromorphisms clinical examples of genomic imprinting an example driven overview of chromosomal microarray mathematics specifically geared for the cytogeneticist usage of ISCN s cytogenetic language to describe chromosome changes tips for laboratory management examples of laboratory information systems a collection of internet and library resources and a special chapter on animal chromosomes for the research and zoo cytogeneticist The range of topics is thus broad yet comprehensive offering the student a resource that teaches the procedures performed in the cytogenetics laboratory environment and the laboratory professional with a peer reviewed reference that explores the basis of each of these procedures This makes it a useful resource for researchers clinicians and lab professionals as well as students in a university or medical school setting **Holt Biology** Rob DeSalle, 2008
Publications, Reports, and Papers for 1966 from Oak Ridge National Laboratory F. M. O'Hara, Ann S. Klein, 1967
Instructor's Manual to Accompany Biology Laboratory Carolyn Eberhard, 1987 **The ACT Cytogenetics Laboratory Manual** Association of Cytogenetic Technologists, 1991 Revised and expanded to cover advanced instrumentation techniques There are three separate chapters on peripheral blood culture continuous cell lines and prenatal diagnosis and culture and new chapters on solid tumours fragile sites and molecular cytogenetics Laboratory Hamsters G. L. Van Hoosier Jr., 1987-10-14 **Laboratory Hamsters** **Pure and Applied Science Books, 1876-1982**, 1982 Over 220

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Biology ,1998 Teacher's Guide to the Modern Biology Program James Howard Otto,Albert Towle,Elizabeth H.

Crider,1965 **Cold Spring Harbor Symposia on Quantitative Biology** Cold Spring Harbor Laboratory of Quantitative

Biology,1941 One Hundred Years of Chromosome Research and What Remains to be Learned A.

Lima-de-Faria,2013-06-29 One Hundred Years of Chromosome Research What Remains to be Learned offers the reader a critical analysis of the observations and experiments that shaped the last 100 years of chromosome research as well as the ideas which prevailed during this period Emphasis is placed on what remains to be learned particularly in light of reality of the sequencing of DNA which leaves the previous era of chromosome research as a prehistoric event It is at this turning point that well formulated questions can be asked about many of the chromosome s properties which remain to be unveiled The author Lima de Faria is Professor Emeritus of Molecular Cytogenetics at Lund Unviersity Sweden previously Head of the Institute of Molecular Cytogenetics Lund University *Videodisc Correlatn GD Modern Biology 99* Holt Rinehart &

Winston,1998-02 **A Laboratory Manual of Comparative Vertebrate Embryology** Allyn Jay Waterman,1948

Modern Biology, 1991 Albert Towle,1989 *Cytogenetics and Cell Genetics* ,1980 **The Collecting Net** ,1928

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