



Imaging based assays for mitotic chromosome condensation and dynamics, and more. Contains contributions from experts in the field from across the world Covers a wide array of topics on both mitosis and meiosis Includes relevant, analysis based topics Mitosis and Meiosis, Part A, Volume 144, a new volume in the Methods in Cell Biology series, continues the legacy of this premier serial with quality chapters authored by leaders in the field. Unique to this updated volume are chapters on Analyzing the Spindle Assembly Checkpoint in human cell culture, an Analysis of CIN, a Functional analysis of the tubulin code in mitosis, Employing CRISPR/Cas9 genome engineering to dissect the molecular requirements for mitosis, Applying the auxin-inducible degradation (AID) system for rapid protein depletion in mammalian cells, Small Molecule Tools in Mitosis Research, Optogenetic control of mitosis with photocaged chemical, and more. Contains contributions from experts in the field from across the world Covers a wide array of topics on both mitosis and meiosis Includes relevant, analysis based topics 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. The Cell: Biochemistry, Physiology, Morphology, Volume III: Meiosis and Mitosis covers chapters on meiosis and mitosis. The book discusses meiosis with regard to the meiotic behavior of chromosomes; the anomalous meiotic behavior in organisms with localized centromeres and in forms with nonlocalized centromeres; and the nature of the synaptic force. The text also describes the mechanism of crossing over; the relationship of chiasmata to crossing over and metaphase pairing; and the reductional versus equational disjunction. The process of mitosis and the physiology of cell division are also considered. The book further tackles the significance of cell division and chromosomes; the essential mitotic plan and its variants; the preparations for mitosis; and the transition period. The text also demonstrates the time course of mitosis; the mobilization of the mitotic apparatus; metakinesis; the metaphase; the mitotic apparatus; anaphase; telophase; cytokinesis; and the physiology of the dividing cell. Physiological reproduction; mitotic rhythms and experimental synchronization; and the blockage and stimulation of division are also encompassed. Biologists, microbiologists, zoologists, and botanists will find the book invaluable. 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. Mitosis and Meiosis, Part A, Volume 144, a new volume in the Methods in Cell Biology series, continues the legacy of this premier serial with quality chapters authored by leaders in the field. Unique to this updated volume are chapters on Analyzing the Spindle Assembly Checkpoint in human cell culture, an Analysis of CIN, a Functional analysis of the tubulin code in mitosis, Employing CRISPR/Cas9 genome engineering to dissect the molecular requirements for mitosis, Applying the auxin-inducible degradation (AID) system for rapid protein depletion in mammalian cells, Small Molecule Tools in Mitosis Research, Optogenetic control of mitosis with photocaged chemical, and more. Meiosis is the key process underlying sexual reproduction in eukaryotes, occurring in single-celled eukaryotes and in most multicellular eukaryotes including animals and most plants. Thus meiosis is of considerable interest, both at the scientific level and at the level of natural human curiosity about sexual reproduction. Improved understanding of important aspects of meiosis has emerged in recent years and major questions are starting to be answered, such as: How does meiosis occur at the molecular level, How did meiosis and sex arise during evolution, What is the major adaptive function of meiosis and sex. In addition, changing perspectives on meiosis and sex have led to the question: How should meiosis be taught. This book proposes answers to these questions, with extensive supporting references to the current literature. Master's Thesis from the year 2021 in the subject Didactics - Biology, grade: 12, , language: English, abstract: This research assessed the status of online interactive resources for asynchronous modality in teaching grade 12 General Biology 1 at the University of Cebu - METC Campus, Cebu City during School Year 2020 - 2021 as the basis for an enhanced learning module. This study utilized a quasi-experimental method of research employing the use of a non-equivalent control group pretest-posttest design. Two sections of Grade 12 STEM with a total of 47 students participated as research respondents, in both the experimental and the control groups. The students answered a 40-item multiple-choice questionnaire as a research instrument. The control group was treated with only pure-text modules and PowerPoint presentation. In contrast, students from the experimental group utilized online interactive resources containing some hyperlinked lectures, video lectures, interactive games, animations, and some simulated demonstrations that were adopted and utilized for Grade 12 STEM learners in General Biology 1. Mitosis and Meiosis details the wide variety of methods currently used to study how cells divide as yeast and insect spermatocytes, higher plants, and sea urchin zygotes. With chapters covering micromanipulation of chromosomes and making, expressing, and imaging GFP-fusion proteins, this volume contains state-of-the-art "how to" secrets that allow researchers to obtain novel information on the biology of centrosomes and kinetochores and how these organelles interact to form the spindle. Chapters Contain Information On: \* How to generate, screen, and study mutants of mitosis in yeast, fungi, and flies \* Techniques to best image fluorescent and nonfluorescent tagged dividing cells \* The use and action of mitoclastic drugs \* How to generate antibodies to mitotic components and inject them into cells \* Methods that can also be used to obtain information on cellular processes in nondividing cells Molecular Regulation of Nuclear Events in Mitosis and Meiosis presents papers from researchers in various fields engaged in the scientific study of molecular mechanisms involved in the control of nuclear events in meiotic and mitotic cell activity. Various articles in the book discuss a wide range of topics such as the development of cytoplasmic activities that control chromosome cycles during maturation of amphibian oocytes; dynamics of the nuclear lamina during mitosis and meiosis; role of protein phosphorylation in xenopus oocyte meiotic maturation; and cell cycle studies of histone modifications. Molecular and cell biologists, oncologists, and biochemists will find the book invaluable. Aneuploidy, any deviation from an exact multiple of the haploid number of chromosomes, is a common occurrence in cancer and represents the most frequent chromosomal disorder in newborns. Eukaryotes have evolved mechanisms to assure the fidelity of chromosome segregation during cell division that include a multiplicity of checks and controls. One of the main cell division control mechanisms is the spindle assembly checkpoint (SAC) that monitors the proper attachment of chromosomes to spindle fibers and prevents anaphase until all kinetochores are properly attached. The mammalian SAC is composed by at least 14 evolutionary-conserved proteins that work in a coordinated fashion to monitor the establishment of amphitelic attachment of all chromosomes before allowing cell division to occur. Among the SAC proteins, the budding uninhibited by benzimidazole protein 1 (Bub1), is a highly conserved protein of prominent importance for the proper functioning of the SAC. Studies have revealed many roles for Bub1 in both mitosis and meiosis, including the localization of other SAC proteins to the kinetochore, SAC signaling, metaphase congression and the protection of the sister chromatid cohesion. Recent data show striking sex specific differences in the response to alterations in Bub1 activity. Proper Bub1 functioning is particularly important during oogenesis in preventing the generation of aneuploid gametes that can have detrimental effects on the health status of the fetus and the newborn. These data suggest that Bub1 is a master regulator of SAC and chromosomal segregation in both mitosis and meiosis. Elucidating its many essential functions in regulating proper chromosome segregation can have important consequences for preventing tumorigenesis and developmental abnormalities.

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