

Chapter 10.4 Lab: Meiosis and Introduction to Karyotyping

Learning Objectives

During this lab you should be able to:

1. Develop a basic understanding of the stages of meiosis
2. Identify the stages of meiosis from a virtual lab viewing cells in meiosis
3. Develop an understanding of how alleles(genes) recombine during meiosis
4. Introduction to basic karyotyping

Introduction

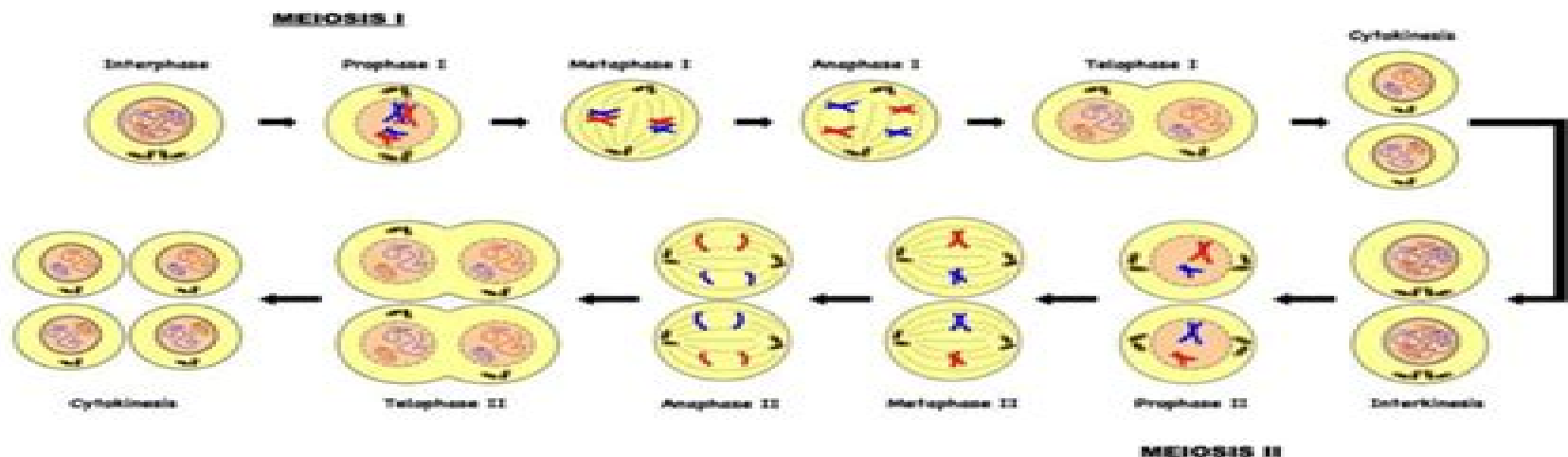
Meiosis is the second important kind of nuclear division. It resembles mitosis in many ways but the consequences of meiotic divisions are very different from those of mitotic divisions. While mitotic division may occur in almost any living cell of an organism, meiosis occurs only in special cells. In animals, meiosis is restricted to cells that form **gametes** (eggs and sperm). Each species has a characteristic number of chromosomes per somatic cell. Fruit flies have 8; normal humans have 46. They exist as homologous pairs (partners) that are similar in size and shape and carry the same kinds of genes. Thus humans have 23 homologous pairs. The full complement of 46 chromosomes is referred to as the **diploid number** (referring to the fact that each kind of chromosome is represented twice).

In higher organisms when an egg is fertilized the egg and sperm fuse to form a single cell called a **zygote** which develops into a new organism. If the egg and sperm were both diploid (46 chromosomes each in the case of humans) then the resulting zygote would be tetraploid. This would be an intolerable situation, so a mechanism has evolved to insure that each gamete (egg or sperm) contains only one representative of each homologous pair (or half the diploid number). This is referred to as the **haploid number**.

Haploid Egg + Haploid Sperm = Diploid Zygote

The mechanism that makes this possible is meiosis. Meiosis consists of two divisions, **Meiosis I** and **Meiosis II**, and can potentially result in the production of four cells. However the DNA is only synthesized once (prior to Meiosis I). The duplicating of DNA occurs during **Interphase** just as it does in a typical somatic cell. The difference is the cell then enters the meiotic phase. The subdivisions of meiosis are named like the subdivisions of mitosis (prophase, metaphase, anaphase, telophase) but as we shall see the events are somewhat different.

Summary of Meiosis



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Cumulated Index Medicus, 1964 Mitosis & meiosis LAB 3 [Cathrine M. Monson, 2004* Mitosis and Meiosis, 1998-12-16 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 **Meiosis** Andrew Swan, 2012-02-29 Meiosis the process of forming gametes in preparation for sexual reproduction has long been a focus of intense study Meiosis has been studied at the cytological genetic molecular and cellular levels Studies in model systems have revealed common underlying mechanisms while in parallel studies in diverse organisms have revealed the incredible variation in meiotic mechanisms This book brings together many of the diverse strands of investigation into this fascinating and challenging field of biology 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

Meiosis Peter Moens, 2012-12-02 Meiosis is a monograph focused on meiosis specific functions It presents a discussion on the genetic regulations of meiosis and aims to direct readers on future research by reporting a number of studies on progress The text is divided into four parts and consists of 12 chapters After an introduction to the meiotic process the first part of the book narrates the genetic transmission and the evolution of reproduction and parthenogenesis The second part presents the concepts of recombination the heteroduplex model and the genetic control of biochemical events in meiotic recombination The third part covers the information about the chiasmata and synaptonemal complex including the Rabl orientation The text is then concluded by the fourth part that covers the biochemical basis of meiosis The book is an excellent reference for undergraduate and graduate students in biological courses specifically in genetics biochemistry and cell developmental and molecular biology Lecturers researchers and other professionals in the same field will also find this book useful *Meiosis and Mitosis* Jean Brachet, Alfred E. Mirsky, 2014-05-10 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 **Cell Biology** Griffith Reid,2017-05-25 This book presents the complex subject of meiosis and mitosis in the most comprehensible and easy to understand language It elucidates the various methods and theories of these process Meiosis and mitosis are the processes of cell division that occur in cells It is an important part of the cell cycle The topics included in the text are of utmost significance and bound to provide incredible insights to readers Coherent flow of topics student friendly language and extensive use of examples make this an invaluable source of knowledge The book is appropriate for those seeking detailed information in this area

Understanding Meiosis and Mitosis Stephanie Harris,2021-11-16 Meiosis and mitosis are the processes of cell division that are studied in cell biology Meiosis is a type of cell division that is used to produce gametes like sperm or egg cells It is used by sexually reproducing organisms This process includes two rounds of cell division that leads to the formation of four cells with one copy of each chromosome Mitosis is the process in which chromosomes are replicated into two new nuclei This results in cells that are genetically identical and which retain the same number of chromosomes It is concerned with the transfer of parent cell s genome into two subsequent daughter cells The processes of meiosis and mitosis differ in two aspects These are recombination and the number of chromosomes The topics included in this book are of utmost significance and bound to provide incredible insights to readers Different approaches evaluations methodologies and studies related to this field have been included herein Coherent flow of topics student friendly language and extensive use of examples make this book an invaluable source of knowledge **Plant Meiosis** Wojciech P. Pawlowski,Mathilde Grelon,Susan Armstrong,2013-04-05 Meiosis is one of the most critical processes in eukaryotes required for continuation of species and generation of new variation In plants meiotic recombination is by far the most important source of genetic variation In Plant Meiosis Methods and Protocols expert researchers in the field detail methods for molecular cytogenetics and chromosome analysis in plants These state of the art protocols allow studying the organization and behavior of the genetic material in a wide range of both model and crop species Written in the highly successful Methods in Molecular Biology™series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step and readily reproducible laboratory protocols and key tips on troubleshooting and avoiding known pitfalls Authoritative and practical Plant Meiosis Methods and Protocols provides and extensive list of protocols developed and used in a number of laboratories at the cutting edge of meiosis and chromosome research Mitosis and Meiosis Gary Parker,W.

Ann Reynolds, Rex Reynolds, 1968 Meiosis Scott Keeney, 2010-07-19 Each generation in a sexually reproducing organism such as a fly or a mouse passes through the bottleneck of meiosis which is the specialized cell division that gives rise to haploid reproductive cells sperm eggs spores etc The principal function of meiosis is to reduce the genome complement by half which is accomplished through sequential execution of one round of DNA replication followed by two rounds of chromosome segregation Within the extended prophase between DNA replication and the first meiotic division in most organisms homologous maternal and paternal chromosomes pair with one another and undergo homologous recombination which establishes physical connections that link the homologous chromosomes until the time they are separated at anaphase I Recombination also serves to increase genetic diversity from one generation to the next by breaking up linkage groups The unique chromosome dynamics of meiosis have fascinated scientists for well over a century but in recent years there has been an explosion of new information about how meiotic chromosomes pair recombine and are segregated Progress has been driven by advances in three main areas 1 genetic identification of meiosis defective mutants and cloning of the genes involved 2 development of direct physical assays for DNA intermediates and products of recombination and 3 increasingly sophisticated cy logical methods that describe chromosome behaviors and the spatial and temporal patterns by which specific proteins associate with meiotic chromosomes

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