



## LIFE SCIENCES Grade 12

### Practical Investigation 1

**Date:** 18 February 2014

**Name:** \_\_\_\_\_

Total	
	30

### TO INVESTIGATE THE PROCESS OF MEIOSIS

Organisms produced by sexual reproduction are truly new organisms. They have different sets of genes from their parents. The gametes formed by meiosis are just for the purpose of sexual reproduction. Gametes cannot grow into another organism until they fuse with another gamete to form a zygote. When the zygote forms, it is genetically unique.

Genetic variation allows a species to have a better chance of adapting to and surviving sudden changes in the environment. No two individuals in a sexually reproducing population are exactly the same. Meiosis during sexual reproduction therefore ensures maximum genetic variation and improved the chances of a species' survival.

*Source: Life Sciences Explained Grade 12*

1. Study the electron micrographs showing various phases of meiosis



- 1.1 State the places where this process will take place in human females .

\_\_\_\_\_

(1)

# Life Sciences Practical 2015 On Meiosis

**Jean Brachet**



## **Life Sciences Practical 2015 On Meiosis:**

*Mechanisms of DNA Recombination and Genome Rearrangements: Methods to Study Homologous Recombination*, 2018-02-17 Mechanisms of DNA Recombination and Genome Rearrangements Methods to Study Homologous Recombination Volume 600 the latest release in the Methods in Enzymology series continues the legacy of this premier serial with quality chapters authored by leaders in the field Homologous genetic recombination remains the most enigmatic process in DNA metabolism The molecular machines of recombination preserve the integrity of the genetic material in all organisms and generate genetic diversity in evolution The same molecular machines that support genetic integrity by orchestrating accurate repair of the most deleterious DNA lesions however also promote survival of cancerous cells and emergence of radiation and chemotherapy resistance This two volume set offers a comprehensive set of cutting edge methods to study various aspects of homologous recombination and cellular processes that utilize the enzymatic machinery of recombination The chapters are written by the leading researches and cover a broad range of topics from the basic molecular mechanisms of recombinational proteins and enzymes to emerging cellular techniques and drug discovery efforts Contributions by the leading experts in the field of DNA repair recombination replication and genome stability Documents cutting edge methods *White Wine Technology* Antonio Morata, 2021-09-21 White Wine Technology addresses the challenges surrounding white wine production The book explores emerging trends in modern enology including molecular tools for wine quality and analysis of modern approaches to maceration extraction alternative microorganisms for alcoholic fermentation and malolactic fermentation The book focuses on the technology and biotechnology of white wines providing a quick reference of novel ways to increase and improve overall wine production and innovation Its reviews of recent studies and technological advancements to improve grape maturity and production and ways to control PH level make this book essential to wine producers researchers practitioners technologists and students Covers trends in in both traditional and modern enology technologies including extraction processing stabilization and ageing technologies Examines the potential impacts of climate change on wine quality Provides an overview of biotechnologies to improve wine freshness in warm areas and to manage maturity in cold climates Includes detailed information on hot topics such as the use of GMOs in wine production spoilage bacteria the management of oxidation and the production of dealcoholized wines Infants and Children Laura E. Berk, 2022-07-26 In the Ninth Edition of *Infants and Children Prenatal Through Middle Childhood* renowned professor researcher and author Laura E Berk takes an integrated approach to presenting development in the physical cognitive emotional and social domains emphasizing the complex interchanges between heredity and environment providing exceptional multicultural and cross cultural focus and offering research based practical applications that students can relate to their personal and professional lives **When Reproduction meets Ageing** Nolwenn Bühler, 2021-05-27 When Reproduction meets Ageing questions the nature of reproductive ageing and reproductive biomedicine *Knowledge Production in Mao-Era China* Rui Kunze, Marc Andre

Matten,2021-10-15 This book traces and analyzes the transformation of the public discourse of science and technology in Mao era China Based on extensive primary sources such as science dissemination materials and technical handbooks as well as mass media products of the Great Leap Forward and the Cultural Revolution periods this book delineates the emergence of a pragmatic approach to knowledge in society To achieve the goal of fast modernization with limited financial human and material resources the party state accommodated Western and local modern and traditional knowledges in the fields of agricultural mechanization steel production and Chinese veterinary medicine The case studies demonstrate that scientific knowledge production in the Mao era included various social groups and was entangled with political and cultural issues This reveals and explains the continuity of scientific thinking across the historical divides of 1949 and 1978 which has hitherto been underestimated

**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** 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

Mitosis and Meiosis Part A ,2018-05-24 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 Mitosis and Meiosis Part B ,2018-06-26 Mitosis and Meiosis Part B Volume 145 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 Mitotic live cell imaging at different time scales the characterization of mitotic spindle by multi mode correlative microscopy STED microscopy of mitosis Correlating light microscopy with serial block face scanning electron microscopy to study mitotic spindle architecture quantification of three dimensional spindle architecture 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 **Meiosis** Jesús A Carballo,2024-08-10 This volume details protocols on meiosis covering the latest technological and methodological advances in this research field Chapters guide readers through methods on genomics biochemistry super resolution microscopy traditional genetics cytological methods as well as machine learning and in silico modelling Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of necessary materials and reagents step by step readily reproducible laboratory protocols and key tips on troubleshooting and avoiding known pitfalls Authoritative and cutting edge Meiosis Methods and Protocols aims to ensure successful results in further studies of this vital field **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 **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 an extensive list of protocols developed and used in a number of laboratories at the cutting edge of meiosis and chromosome research

*Recombination and Meiosis* Richard Egel, Dirk-Henner Lankenau, 2008-07-25 Once per life cycle mitotic nuclear divisions are replaced by meiosis I and II reducing chromosome number from the diploid level to a haploid genome and recombining chromosome arms by crossing over In animals all this happens during formation of eggs and sperm in yeasts before spore formation The mechanisms of reciprocal exchange at crossover chiasma sites are central to mainstream meiosis To initiate the meiotic exchange of DNA surgical cuts are made as a form of calculated damage that subsequently is repaired by homologous recombination These key events are accompanied by ancillary provisions at the level of chromatin organization sister chromatid cohesion and differential centromere connectivity Great progress has been made in recent years in our understanding of these mechanisms Questions still open primarily concern the placement of and mutual coordination between neighboring crossover events Of overlapping significance this book features two comprehensive treatises of enzymes involved in meiotic recombination as well as the historical conceptualization of meiotic phenomena from genetical experiments More specifically these mechanisms are addressed in yeasts as unicellular model eukaryotes Furthermore evolutionary subjects related to meiosis are treated

**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 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

**Meiosis in Development and Disease**, 2023-01-16 Meiosis in Development and Disease Volume 151 in the Current Topics in Developmental Biology series highlights new advances in the field with this new volume presenting interesting chapters on topics such as The initiation stages of meiosis The molecular basis and dynamics of meiotic cohesions and their

significance in human infertility Chromatin recombination and the centromeres Sites and structures that mediate segregation when crossing over calls out sick Life or at Least Meiosis Without Crossing Over Crossover maturation inefficiency Non coding RNA mediated gene regulation in meiosis Short chromosomes in meiotic recombination Chromatin level changes during meiosis initiation vs oncogenesis and much more Other sections of note include Chromosomal speciation revisited Meiotic recombination and synapsis of evolutionary diverged homologs Recombination suppression at specific chromosome regions Unwinding during stressful times mechanisms of helicases in meiotic recombination Meiotic functions of PCH 2 TRIP13 and HORMADs Crossover interference Checkpoint control in meiotic prophase Idiosyncratic demands require unique characteristics The breadth of meiotic drive genes and mechanisms across the tree of life and many more interesting topics Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Current Topics in Developmental Biology series Updated release includes the latest information on the Meiosis in Development and Disease     Meiosis Scott Keeney,2009     **Mitosis and Meiosis** Veronica Armstrong,2007-01-01

**Meiosis** Bernard John,1990-04-12 Meiosis the antithesis of fertilization is the unique genetically programmed mode of nuclear division associated with a halving of the chromosome number in sexually reproducing eukaryotes It thus represents a key cellular and developmental pathway in the life of an organism In this book Bernard John presents the first complete and the most authoritative review of the events and mechanisms of meiosis including their scheduling their mechanics and their biochemistry as well as their genetic control and the variations to be found in them in both sexual and subsexual systems The text is superbly illustrated with 131 figures and 73 tables Meiosis must be regarded as essential reading for all students teachers and research workers with an interest in eukaryotic cell biology and genetics     Recombination and Meiosis Richard Egel,Dirk-Henner Lankenau,2007-11-13 This fascinating volume addresses the processes and mechanisms taking place in the cell during meiosis and recombination It covers multicellular eukaryotes such as Drosophila Arabidopsis mice and humans Once per life cycle mitotic nuclear divisions are replaced by meiosis I and II reducing chromosome number from the diploid level to a haploid genome reshuffling the homologous chromosomes by their centromeres and recombining chromosome arms by crossing over     Meiosis and Mitosis Jean Brachet,1961

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