



## 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)

# Worksheet Life Science Grade 12 Practical Meiosis

**Scott Keeney**



## **Worksheet Life Science Grade 12 Practical Meiosis:**

*The Science Teacher's Toolbox* Tara C. Dale, Mandi S. White, 2020-04-28 A winning educational formula of engaging lessons and powerful strategies for science teachers in numerous classroom settings The Teacher's Toolbox series is an innovative research based resource providing teachers with instructional strategies for students of all levels and abilities Each book in the collection focuses on a specific content area Clear concise guidance enables teachers to quickly integrate low prep high value lessons and strategies in their middle school and high school classrooms Every strategy follows a practical how to format established by the series editors The Science Teacher's Toolbox is a classroom tested resource offering hundreds of accessible student friendly lessons and strategies that can be implemented in a variety of educational settings Concise chapters fully explain the research basis necessary technology Next Generation Science Standards correlation and implementation of each lesson and strategy Favoring a hands on approach this book provides step by step instructions that help teachers to apply their new skills and knowledge in their classrooms immediately Lessons cover topics such as setting up labs conducting experiments using graphs analyzing data writing lab reports incorporating technology assessing student learning teaching all ability students and much more This book enables science teachers to Understand how each strategy works in the classroom and avoid common mistakes Promote culturally responsive classrooms Activate and enhance prior knowledge Bring fresh and engaging activities into the classroom and the science lab Written by respected authors and educators The Science Teacher's Toolbox Hundreds of Practical Ideas to Support Your Students is an invaluable aid for upper elementary middle school and high school science educators as well those in teacher education programs and staff development professionals 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 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 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** Veronica Armstrong,2007-01-01 **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

[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 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 Meiosis Science Learning Guide NewPath Learning, 2014-03-01 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 Identifying Stages of Meiosis and Mitosis the Cell Cycle Aligned to Next Generation Science Standards NGSS and other state standards 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

*All about mitosis and Meiosis* Elizabeth R. C. Cregan,2007-12-14      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      *Meiosis* Scott Keeney,2009      **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      *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** Bernard John, 1990-04-12 This is the first comprehensive review and discussion of meiosis the antithesis of fertilization Meiosis is a special form of nuclear division invented by sexually reproducing eukaryotes to ensure that a correct chromosome complement is maintained over successive generations In this masterly treatment the author describes the scheduling mechanisms biochemistry and the genetic control of the events of meiosis in sexual systems as well as the variants adopted by subsexual forms This will be an essential text for upper division students and research workers in genetics cytology and cell biology

Chapter Resource 7 Meiosis/Reproduction Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004-01-01

**Cellular Architecture and Dynamics in Female Meiosis** Binyam Mogessie, 2025-08-20 This book brings together a diverse and exciting group of emerging and leading experts in female meiosis each contributing a chapter that summarizes seminal recent progresses in their area of specialty With various meiosis topics ranging from cytoskeletal function in worms to studies of oocyte meiosis in large mammals this collection is intended for fundamental cell biologists interested the basic mechanisms of cell division and differentiation

**Meiosis** Scott Keeney, 2009-07-20 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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