

Mitosis and Meiosis Webquest

Name: _____

Objective: In this activity, you will use the following web pages to examine the processes of mitosis and meiosis. Both of these processes are important in homeostasis as well as human reproduction.

PART A: Cell Growth and Mitosis

Please go to the following webpage:

<http://plaza.ufl.edu/alallen/pgl/modules/rio/stingarees/module/index.html>

1. What is the function of the cell membrane related cell division?
2. What is the role of the nucleus in cell division?
3. What is the role of the centrioles in cell division?
4. What is the role of the microtubules in cell division?

Click on the tab, "Why Must Cells Divide?"

5. Why are cells limited in size?
6. Click on the animation. A cell with 2cm sides has what surface area? _____ What volume?
7. What would be the surface to volume ratio?
8. A cell with a large volume will have a more difficult time doing what?

Click on the tab, "What Does Mitosis Do?"

9. What are the 2 major functions of mitosis?

Click on the tab, "Built-in Controls in Mitosis"

10. What are the 2 ways that cells "know" to stop dividing?

Please go to: <http://www2.estrellamountain.edu/faculty/farabee/BIOBK/BioBookmito.html>

11. What ends the cell division process where one cell splits from the sister cell?
12. Some cells divide rapidly. Example?
13. Some cells do not divide at all after maturity. Example?
14. What creatures does binary fission occur in?
15. List the steps in the cell cycle in order:

PART B: Meiosis

Please go to the webpage: <http://www.lpscience.fatcow.com/jwanamaker/animations/meiosis.html>

16. What is the purpose of meiosis?

Please go to <http://www.cellsalive.com/meiosis.htm> Start the animation. Click on the phases

17. What do the chromosomes do in Prophase I?
18. Crossing Over occurs in Prophase I. What is the significance of crossing over?
19. Compare the number of chromosomes in the starting parent cell to the number of chromosomes in each of the four daughter cells formed by meiosis.
20. Label the following steps of Meiosis: <https://www.genome.gov/EdKit/pdfs/1902b2.pdf>



Mitosis And Meiosis Webquest Biology

J Ma



Mitosis And Meiosis Webquest Biology:

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 Mitosis and Meiosis Veronica Armstrong,2007-01-01 *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 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 Gary Parker,W. Ann Reynolds,Rex Reynolds,1968 **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 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 The Disagreement of Mitosis and Meiosis Corey Nagle,2012 Cell Division Mitosis or Meiosis Trying to remember how a cell divides Confused by mitosis and meiosis This charming story of two cells Stemi and Stemly tells of the cells mission to make more cells and their disagreements over how to accomplish this goal Each cell describes a plan mitosis or meiosis and the resulting division Handy quick fact charts illustrations and a comparison of mitosis and meiosis are included at the end of the book This book is intended for a middle school or high school basic life science audience The book looks at the basics of cellular division for producing body cells and gamete cells *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 and Mitosis** Jean Brachet,1961 *All about Mitosis and Meiosis* Elizabeth R. Cregan,2010 Literacy based science activities that describe the function and purpose of cells and the processes of mitosis and meiosis 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

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

Molecular Regulation of Nuclear Events in Mitosis and Meiosis Robert A. Schlegel,Margaret S. Halleck,Potu N. Rao,2013-09-24 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

Simplifying Mitosis and Meiosis Paul A. Adams,1978 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

All about mitosis and Meiosis Elizabeth R. C. Cregan,2007-12-14 *Mitosis* Mitsuhiro Yanagida,Anthony A. Hyman,Jonathon Pines,2015 A subject collection from Cold Spring Harbor Perspectives in Biology

Holt Biology: Meiosis and sexual reproduction ,2003 *Molecular Regulation of Nuclear Events in Mitosis and Meiosis* R. A. Schlegel,1962

Mitosis And Meiosis Webquest Biology: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Mitosis And Meiosis Webquest Biology : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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