

CYTOGENETICS – EXAMINATION

c. which cells are affected and how to replace the protein's function in them.

Studying these, researchers will be able to find ways on how to treat or at least prevent abnormalities and develop treatment that could compensate to the function or replace affected cells.

d. how the mutation was caused.

6. Factors that control how often a cell divides include which of the following? Why?

a. which chromosomes are active and which are not.

b. the activity level of the person, diet, and environmental exposures.

c. where chromosomes are located within the nucleus.

d. telomere lengths, hormonal signals, crowding, and growth factors.

Telomeres are sections of DNA found at chromosomes tips. Telomeres length shorten after approximately 50 division which lead to loss of DNA that signals mitosis to stop. Hormones and growth factors are chemical signals that control the cell cycle from outside. In example, the lack of human growth hormone can inhibit cell division resulting dwarfism, while too much HGH can cause gigantism. Plugging growth factor receptors on cancer cells can block the signals for cells to divide. As cell grows, its surface-to-volume ratio is decreasing. This event cause cell crowding and is one factor that can inhibits cell division.

7. Briefly describe the difference between a stem cell and a progenitor cell.

Stem Cells are reserve cells that has a potential to create many new different cells that has the ability to replace or repair dying and damaged cells. Progenitor cells are more specialized than stem cells and they can only be pushed to differentiate into its target cell. In addition to their differences is the characteristic of self-renewal. Stem cells has the ability to give rise to another cell like itself, meanwhile progenitor cell cannot self-renew and can divide only a limited number of times.

8. What disease associated with thalidomide ingestion during pregnancy? Provide explanation.

Thalidomide embryopathy, or thalidomide syndrome is develop. Thalidomide is a sedative tranquilizer taken by pregnant women to alleviate nausea in early pregnancy, during the critical period for limb formation. Ingestion of this during pregnancy can result to severe birth defects including incomplete and malformed limbs, and problems in other organs.

9. A cell that has a diploid number of 8 chromosomes has 4 chromosomes lined up in the center of the cell, each chromosome containing two joined sister chromatids. What phase of the cell cycle is this cell in?

a. Metaphase I of meiosis.

b. Metaphase II of meiosis.

c. Metaphase of mitosis.

During this phase, the chromosomes align along the center of metaphase plate. Sister chromatids joined at the center by kinetochores.

d. Telophase I of meiosis.

10. In about 1 in 200 pregnancies, a sperm fertilizes a polar body instead of an ovocyte. A mass tissue that is not an embryo develops. Why can't a polar body support the development of an entire embryo?

Polar body is one of the byproduct of the division of the primary oocytes during the meiosis I. It is small cell with a very little cytoplasm, this can explain why it can't support the development of an entire embryo. Polar body have no role in embryo.

Cytogenetics Study Guide

**Francis P. Worden, Rami N.
Khoriaty, Erin Cobain, Alexander T.
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The Principles of Clinical Cytogenetics Steven L. Gersen, Martha B. Keagle, 2013-03-26 In this thoroughly revised and expanded third edition of the highly praised classic *The Principles of Clinical Cytogenetics* a panel of hands on experts update their descriptions of the basic concepts and interpretations involved in chromosome analysis to include the many advances that have occurred in the field Among the highlights are a full chapter devoted to advances in chromosome microarray soon to become a standard of care in this field as well as an update on chromosome nomenclature as reflected in ISCN 2009 Other features include an update on automation to reflect the current state of the art an update on hematopoietic neoplasms to reflect the new WHO guidelines and updates on all regulatory changes that have been implemented Cutting edge and readily accessible *The Principles of Clinical Cytogenetics Third Edition* offers physicians who depend on the cytogenetics laboratory for the diagnosis of their patients students in cytogenetics programs graduate and medical students studying for board examinations cytogenetics technologists and cytogeneticists a clear understanding of what happens in the cytogenetics laboratory to facilitate accurate and timely diagnoses

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Manual of Medical Laboratory Techniques S Ramakrishnan, KN Sulochana, 2012-12-15 This is the 1st edition of the book *Manual of Medical Laboratory Techniques* The text is comprehensive updated and fully revised as per

the present day requirements in the subject of medical laboratory technique In this book principles methodologies results norms interpretations diseases concerned and bibliography are included for each test The book has 5 chapters The first chapter deals with biochemical tests Chapter two provides a comprehensive description of tests done for genetic analysis A sound foundation of understanding of test in hematology microbiology and serology is provided in next 2 chapters Chapter 5th deals with ophthalmic histopathology A comprehensive index is given at last *Oncology Board Review, Third Edition* Francis P. Worden, Rami N. Khoriaty, Erin Cobain, 2021-11-10 Now in its third edition Oncology Board Review Blueprint Study Guide and Q A is designed to help you prepare for the American Board of Internal Medicine ABIM Medical Oncology Certification Exam This comprehensive digital resource has been revised to include new treatment regimens clinical guidelines and other advancements impacting the field as well as updated board style Q A Dedicated sections cover hematological malignancies and solid tumors with a templated chapter approach highlighting epidemiology etiology and risk factors diagnostic criteria staging signs and symptoms of the disease prognostic factors indications for treatment and special considerations Later sections address other topics found on the exam including cancer genetics and tumor biology supportive and palliative care bone marrow transplantation and biostatistics With more than 240 practice questions and detailed rationales Oncology Board Review gives you the tools to study your way and the confidence to pass the first time Key Features Aligns with the latest ABIM Medical Oncology Certification Exam blueprint Provides a comprehensive yet concise review of all hematologic malignancies and solid tumors Covers anticancer therapies clinical research methodology survivorship and palliative care and more areas found on the exam Revised to include new treatment recommendations and FDA approvals Includes end of chapter assessment questions with detailed rationales a total of more than 240 questions throughout **Hematology Board Review** Francis P. Worden, Rami N. Khoriaty, Kathleen A. Cooney, Michael Deiningner, 2018-05-28 Hematology Board Review Blueprint Study Guide and Q A is a concise outline based study guide covering all topics that appear on the Hematology Certification Exam The book includes all topics listed in the American Board of Internal Medicine ABIM blueprint as essential material for the exam and highlights topic areas that are often found on the test For hematology and oncology fellows as well as practicing clinicians needing a refresher before taking MOC this handy study guide provides succinct overviews of all blood disorders syndromes and diseases with practice questions on the go Each disorder or disease based chapter provides the same structure for ease of use beginning with the epidemiology and followed by the etiology and risk factors signs and symptoms diagnostic criteria indications for treatment prognostic factors treatment recommendations and special considerations The authors provide the most accurate and up to date information including well established treatment regimens for a variety of blood disorders including iron disorders bone marrow failure syndromes platelet and megakaryocytic disorders hemostasis thrombosis and hematologic malignancies Later chapters review other major subspecialty areas found on the exam including transfusion medicine and hematopoietic cell

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Oncology Board Review, Second Edition Francis P. Worden,Rami N. Khoriaty,Erin Cobain,Alexander T.

Pearson,2017-05-08 Print version of the book includes free access to the app web iOS and Android which offers interactive Q A review plus the entire text of the print book Please note the app is included with print purchase only Oncology Board Review Blueprint Study Guide and Q A is a concise outline based study guide covering the topics that appear on the Medical Oncology Certification Exam This second edition has been thoroughly revised to include new treatment regimens clinical guidelines and other updates impacting the field and reflected on the test The book includes all topics listed in the American Board of Internal Medicine ABIM blueprint as essential material for the Medical Oncology Certification Exam The coverage spans all hematologic malignancies and solid tumors beginning with the epidemiology and followed by the etiology and risk factors of the disease staging signs and symptoms diagnostic criteria indications for treatment prognostic factors treatment recommendations and special considerations Later chapters review other major subspecialty areas found on the exam including cancer genetics and tumor biology supportive and palliative care bone marrow transplantation and biostatistics Each chapter includes key points summarized in digestible bullets for easy recall and self assessment And now containing over 230 board style questions with answers and detailed rationales Oncology Board Review Second Edition is the go to quick review for any trainee preparing for initial certification and for oncologists preparing for recertification New to this Edition Includes over 230 board style questions and answers with rationales New chapter on Bone Marrow Transplantation Thoroughly updated and revised chapters with all new treatment recommendations and FDA approvals for solid tumors and hematologic malignancies included

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