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Cytogenetics is the study of chromosome morphology, structure, pathology, function, and behavior. The field has evolved to embrace molecular cytogenetic changes, now termed cytogenomics. Cytogeneticists utilize an assortment of procedures to

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investigate the full complement of chromosomes and/or a targeted region within a specific chromosome in metaphase or interphase. Tools include routine analysis of G-banded chromosomes, specialized stains that address specific chromosomal structures, and molecular probes, such as fluorescence in situ hybridization (FISH)

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and chromosome microarray analysis, which employ a variety of methods to highlight a region as small as a single, specific genetic sequence under investigation. The AGT Cytogenetics Laboratory Manual, Fourth Edition offers a comprehensive description of the diagnostic tests offered by the clinical laboratory and explains the

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science behind them. One of the most valuable assets is its rich compilation of laboratory-tested protocols currently being used in leading laboratories, along with practical advice for nearly every area of interest to cytogeneticists. In addition to covering essential topics that have been the backbone of cytogenetics for over 60 years,

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such as the basic components of a cell, use of a microscope, human tissue processing for cytogenetic analysis (prenatal, constitutional, and neoplastic), laboratory safety, and the mechanisms behind chromosome rearrangement and aneuploidy, this edition introduces new and expanded chapters by experts in the field.

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Some of these new topics include a unique collection of chromosome heteromorphisms; clinical examples of genomic imprinting; an example-driven overview of chromosomal microarray; mathematics specifically geared for the cytogeneticist; usage of ISCN 's cytogenetic language to describe

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chromosome changes; tips for laboratory management; examples of laboratory information systems; a collection of internet and library resources; and a special chapter on animal chromosomes for the research and zoo cytogeneticist. The range of topics is thus broad yet comprehensive, offering the student a resource that teaches the

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procedures performed in the cytogenetics laboratory environment, and the laboratory professional with a peer-reviewed reference that explores the basis of each of these procedures. This makes it a useful resource for researchers, clinicians, and lab professionals, as well as students in a university or medical school setting.

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Raising hopes for disease treatment and prevention, but also the specter of discrimination and "designer genes," genetic testing is potentially one of the most socially explosive developments of our time. This book presents a current assessment of this rapidly evolving field, offering principles for

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actions and research and recommendations on key issues in genetic testing and screening. Advantages of early genetic knowledge are balanced with issues associated with such knowledge: availability of treatment, privacy and discrimination, personal decisionmaking, public health objectives, cost, and more. Among the

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important issues covered: Quality control in genetic testing. Appropriate roles for public agencies, private health practitioners, and laboratories. Value-neutral education and counseling for persons considering testing. Use of test results in insurance, employment, and other settings.

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The first three editions of this acclaimed book presented a much-needed conceptual synthesis of this rapidly moving field. Now, *Cancer Cytogenetics, Fourth Edition*, offers a comprehensive, expanded, and up-to-date review of recent dramatic advances in this area, incorporating a vast amount of new data from the latest basic and clinical

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investigations. New contributors reflecting broader international authorship and even greater expertise Greater emphasis throughout on the clinical importance and application of information about cytogenetic and molecular aberrations Includes a complete coverage of chromosome aberrations in cancer based on

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an assessment of the 60,000 neoplasms
cytogenetically investigated to date Now
produced in full color for enhanced clarity
Covers how molecular genetic data (PCR-
based and sequencing information) are
collated with the cytogenetic data where
pertinent Discusses how molecular
cytogenetic data (based on studies using

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FISH, CGH, SNP, etc) are fused with karyotyping data to enable an as comprehensive understanding of cancer cytogenetics as is currently possible

Understanding and performing tests, interpreting lab results, and performing patient teaching are made easier with

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Mosby 's® Manual of Diagnostic and Laboratory Tests, 7th Edition. This one-stop resource provides clear, concise, and consistent coverage of the most commonly performed diagnostic and laboratory tests. Valuable in academic and clinical settings alike, it is beloved for its full-color design, user-friendly organization, and illustrations

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that help clarify key concepts. Updated content with new tests and images ensures you have the most current and relevant information available. Comprehensive and consistent presentation of tests follows a sequence that best simulates priorities in clinical practice. UNIQUE! Clinical Priorities boxes emphasize priorities and

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procedure considerations specific to understanding and performing tests.

UNIQUE! Test Results and Clinical Significance sections describe the significance of the test findings and discuss the pathophysiology of the disease process and how it relates to the test result.

UNIQUE! Related Tests sections list

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additional tests related to the main test, including tests that provide similar information, confirmatory information, and other tests used to evaluate the same organ, disease process, or symptom complex.

UNIQUE! Critical Values sections indicate test values of particular significance.

UNIQUE! Home Care Responsibilities

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boxes focus on post-test factors for consideration. **UNIQUE!** Icons indicate drugs that increase or decrease test values and patient teaching priorities. Age-Related Concerns boxes address pediatric and geriatric priorities. Results are provided in SI units in addition to others, when applicable. **NEW!** Common Reference Range section

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on the inside front cover provides quick access to this essential information. **NEW!** More than 25 new tests focus mainly on the areas of blood studies and x-ray studies. **NEW!** Quick Tips for Using this Manual section in the front matter helps you use this manual easily and efficiently. **UNIQUE!** Diagnostic Testing for Most Common

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Diseases section highlights the integration of medical testing as it relates to a specific disease, clinical syndrome, or medical condition. **UPDATED!** New images throughout the manual reflect the latest developments in the field.

Firmly rooted in research but brought to life

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in a conversational tone, The BSCS 5E Instructional Model offers an in-depth explanation of how to effectively put the model to work in the classroom.

A discussion of all the key issues in the use of human pluripotent stem cells for treating degenerative diseases or for replacing tissues

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lost from trauma. On the practical side, the topics range from the problems of deriving human embryonic stem cells and driving their differentiation along specific lineages, regulating their development into mature cells, and bringing stem cell therapy to clinical trials. Regulatory issues are addressed in discussions of the ethical

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debate surrounding the derivation of human embryonic stem cells and the current policies governing their use in the United States and abroad, including the rules and conditions regulating federal funding and questions of intellectual property.

This publication extends the now classic

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system of human cytogenetic nomenclature prepared by an expert committee and published in collaboration with Cytogenetic and Genome Research' since 1963. Revised and finalized by the ISCN Committee and its advisors at a meeting in Seattle, Wash., in April 2012, the ISCN 2013 updates, revises and incorporates all previous human

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cytogenetic nomenclature

recommendations into one systematically organized publication that supersedes all previous ISCN recommendations. There are several new features in ISCN 2013: an update of the microarray nomenclature, many more illustrative examples of uses of nomenclature in all sections some

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definitions including chromothripsis and duplication a new chapter for nomenclature that can be used for any region-specific assay. The ISCN 2013 is an indispensable reference volume for human cytogeneticists, technicians and students for the interpretation and communication of human cytogenetic nomenclature.

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Rev. ed. of: Clinical diagnosis and management by laboratory methods / [edited by] John Bernard Henry. 20th ed. c2001.

Since its introduction in 2012, cell-free (cf) DNA based Non-Invasive Prenatal Testing

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(NIPT) has been employed to test for fetal chromosome abnormalities, and gene mutations that lead to a variety of genetic conditions, by millions of pregnant women, in more than 90 countries worldwide. With Noninvasive Prenatal Testing (NIPT): Applied Genomics in Prenatal Screening and Diagnosis, Dr Lieve Page-Christiaens

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and Dr Hanns-Georg Klein have compiled the first authoritative volume on cfDNA NIPT methods and their clinical implementation. Provides a thorough, practical examination of the history of NIPT, NIPT laboratory techniques and bioinformatics, NIPT screening and diagnostics for a wide range of disorders and

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birth defects Presents leading, international experts who discuss the application of NIPT in early screening for common aneuploidies, fetal chromosome anomalies, autosomal trisomies, fetal blood group typing, and maternal constitutional and acquired copy number variants Includes full color imagery that enhances concept illustration, along

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with detailed descriptions of the benefits (and limitations) of NIPT Offers clinicians, researchers, genetic counselors and reproductive specialists of all kinds the required background information, methodologies and essential patient counseling techniques

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This reprint of 'Cytogenetic and Genome Research' contains contributions discussing the subject in-depth. 'Cytogenetic and Genome Research' is a well-respected, international peer-reviewed journal in genetics.

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