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~~The Journal of the Association of Genetic Technologist s 37 (4) 2011 210 Abstract Reviews/Genetics in the News Jaime Garcia-Heras, MD, PhD Director of Cytogenetics~~

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 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) 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 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, 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. 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 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 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.

International Review of Cell and Molecular Biology presents current advances and comprehensive reviews in cell biology--both plant and animal. Articles address structure and control of gene expression, nucleocytoplasmic interactions, control of cell development and differentiation, and cell transformation and growth. Authored by some of the foremost scientists in the field Provides up-to-date information and directions for future research Valuable reference material for advanced undergraduates, graduate students and professional scientists

The benthic boundary layer is the zone of water and sediment immediately adjacent to the bottom of a sea, lake, or river. This zone is of considerable interest to biologists, geochemists, sedimentologists, and engineers because of very strong gradients of energy, dissolved and solid chemical components, suspended matter, and the number of organisms that live there. It is, for example, the sink for anthropogenic substances and the home of microscopic plant life that provides the nutrients that determine fish populations--and ultimately the size of the fisheries. This book of original chapters edited by Professors Boudreau and Jorgensen, both leading researchers in the field, will meet the need for an up-to-date, definitive text/reference on measurements, techniques, and models for transport and biochemical processes in the benthic boundary layer. Each chapter provides a comprehensive review of a selected field, with illustrated examples from the authors' own work. The book will appeal to professionals and researchers in marine biology, marine chemistry, marine engineering, and sedimentology.

Optical Imaging Techniques in Cell Biology, Second Edition covers the field of biological microscopy, from the optics of the microscope to the latest advances in imaging below the traditional resolution limit. It includes the techniques--such as labeling by immunofluorescence and fluorescent proteins--which have revolutionized cell biology. Quantitative techniques such as lifetime imaging, ratiometric measurement, and photoconversion are all covered in detail. Expanded with a new chapter and 40 new figures, the second edition has been updated to cover the latest developments in optical imaging techniques. Explanations throughout are accurate, detailed, but as far as possible non-mathematical. This edition includes appendices with useful practical protocols, references, and suggestions for further reading. Color figures are integrated throughout.

Structural biology is undergoing a revolution in both the sophistication of new biophysical methods and the complexity of problems in biomolecular structure and organization opened up for study. These changes are directly attributable to major advances in computer technology, computational methods, development of high intensity synchrotron radiation sources, new magnetic resonance methods, laser optical techniques, etc. Structure-function problems previously considered intractable may now be solved. As this area of specialisation continues to expand, there is a need to review the various physical methods currently being used and developed in struc tural molecular biology. At the same time that individual techniques and their applications become more specialized, the need for effect ive communication between investigators gains in imperative. It is vital to forge links among sub-disciplines and to emphasise the complementary nature of results observed by different biophysical methods. This publication contains the review lectures given at a meeting on "Current Methods in Structural Molecular Biology" spon sored by NATO as an Advanced Study Institute and by FEBS ~s Advanced Course No. 78. The aim of the meeting was to bring together, in a teaching environment, students and specialists in diverse biophysical methodologies with the specific purpose of exploring, questioning and critically assessing the present and future state of biological structure research. The scientific content of the interdisciplinary Study Institute centred around three interrelated aspects; biophysical methods and instrumentation, their application to biological structure problems, and derivation of structural information and insights.

Sugar chains (glycans) are often attached to proteins and lipids and have multiple roles in the organization and function of all organisms. "Essentials of Glycobiology" describes their biogenesis and function and offers a useful gateway to the understanding of glycans.

Master the genetics you need to know with the updated 14th Edition of Emery's Elements of Medical Genetics by Drs. Peter Turnpenny and Sian Ellard. Review the field's latest and most important topics with user-friendly coverage designed to help you better understand and apply the basic principles of genetics to clinical situations. Learning is easy with the aid of clear, full-color illustrative diagrams, a wealth of clinical photographs of genetic diseases, multiple-choice and case-based review questions, and end-of-chapter summaries. With this highly visual, award-winning classic in your hands, you have all the genetics knowledge you need for exams or practice. This title includes additional digital media when purchased in print format. For this digital book edition, media content is not included. Get a broad view of medical genetics with a unique three-part structure that looks at the Principles of Human Genetics, Genetics in Medicine, and Clinical Genetics. Visualize the appearance of genetic disorders with a fantastic art program that presents many clinical photos of genetic diseases, and work through complicated ideas with an array of full-color illustrative diagrams. Master the material you need to know with a title preferred by faculty and students alike over the last three decades and awarded the British Medical Association Medial Student Textbook of the Year in 2008. Access to www.studentconsult.com, including 150 USMLE-style multiple choice questions to aid study and self-testing. Apply the latest research with chapters on developmental genetics, cancer genetics, prenatal testing and reproduction genetics, 'clonal' sequencing, and more. Understand complex concepts with the help of an increased number of diagrams. Be fully aware of social, ethical, and counseling issues by reviewing an improved section on these topics.

This edition of the popular text incorporates recent advances in neurobiology enabled by modern molecular biology techniques. Understanding how the brain works from a molecular level allows research to better understand behaviours, cognition, and neuropathologies. Since the appearance six years ago of the second edition, much more has been learned about the molecular biology of development and its relations with early evolution. This "evodevo" (as it has come to be known) framework also has a great deal of bearing on our understanding of neuropathologies as dysfunction of early onset genes can cause neurodegeneration in later life. Advances in our understanding of the genomes and proteomes of a number of organisms also greatly influence our understanding of neurobiology. * Well known and widely used as a text throughout the UK, good reviews from students and lecturers. * Good complement to Fundamentals of Psychopharmacology by Brian Leonard. This book will be of particular interest to biomedical undergraduates undertaking a neuroscience unit, neuroscience postgraduates, physiologists, pharmacologists. It is also a useful basic reference for university libraries. Maurice Elphick, Queen Mary, University of London "I do like this book and it is the recommended textbook for my course in Molecular Neuroscience. The major strength of the book is the overall simplicity of the format both in terms of layout and diagrams."

Essentials of Medical Genetics for Health Professionals is a concise, accessible introduction to medical genetics for all health professions students. Even with limited exposure to genetics, students can use the accelerated approach in this text to attain a base foundation of genetics knowledge. This book begins with a review of chromosomes, DNA, RNA, protein synthesis, and inheritance patterns and continues with a clinical focus based on understanding different disease processes. A variety of genetic diseases are explored, including what is known about the genetics involved, the signs and symptoms of the disease, and the treatment options

available. Accompanying tables and images aid comprehension. This book also covers diagnostic techniques and an overview of embryonic development and teratogens. The roles of genetic counseling and screening, as well as the ethical and legal issues related to genetic screening and genetic testing are also discussed. Complete with stated objectives, definition of key terms, references, chapter summaries and end of chapter review questions with answers, each chapter is organized for optimal learning. Essentials of Medical Genetics for Health Professionals will not only have application in the classroom setting for health professions or medical students, but practicing clinicians such as physician assistants, nurse practitioners, and physicians who want to learn more or revisit genetics will also find this book a valuable, useful resource. Instructor Resources include PowerPoint Slides, a TestBank, and an Image Bank.

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