

Olympus Cx31 Microscope Manual

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Fundamentals of Light Microscopy and Electronic Imaging, Second Edition provides a coherent introduction to the principles and applications of the integrated optical microscope system, covering both theoretical and practical considerations. It expands and updates discussions of multi-spectral imaging, intensified digital cameras, signal colocalization, and uses of objectives, and offers guidance in the selection of microscopes and electronic cameras, as well as appropriate auxiliary optical systems and fluorescent tags. The book is divided into three sections covering optical principles in diffraction and image formation, basic modes of light microscopy, and components of modern electronic imaging systems and image processing operations. Each chapter introduces relevant theory, followed by descriptions of instrument alignment and image interpretation. This revision includes new chapters on live cell imaging, measurement of protein dynamics, deconvolution microscopy, and interference microscopy. PowerPoint slides of the figures as well as other supplementary materials for instructors are available at a companion website: www.wiley.com/go/murphy/lightmicroscopy

By joining phylogenetics and evolutionary ecology, this book explores the patterns of parasite diversity while revealing diversification processes.

The intestine is among the leading organs, in which several cutting edge in vitro and in vivo research tools and approaches have recently been developed and used to investigate stem cell biology/function, and the potential applications of stem cells in the treatment of intestinal diseases. These cutting-edge research tools and approaches involve human and murine organoid cultures, genetic editing in vitro and in vivo, human induced pluripotent cell (iPS cell) models of disease, haploid cells for genetic as well as compound screening paradigms, genetically engineered mice, and stem cell transplantation to cure diseases. Stem Cell Innovation in Health and Disease. Volume 1: The Intestine contains two major sections describing cutting edge research for understanding stem cell functions in the intestine, and for developing methods to bring stem cells from bench to bedside, respectively. Each section includes insights ranging from using mouse and human organoid cultures, genetic editing in vitro and in vivo, and human induced pluripotent cells (iPSCs) to study stem cell functions and model intestinal diseases, through the cutting-edge research, including the potential application of iPSCs, ESCs and blood stem cells (stem cell transplants) in the treatment of intestinal diseases/disorders. This volume, therefore, discusses the fact-based promise of stem cells and regenerative medicine in the intestine in the real world. Provides intensive scientific background and most recent information on cutting edge research to understand intestinal stem cell functions and develop methods to bring stem cells from bench to bedside for different intestinal diseases Analyzes the current state, opportunities, and challenges of innovative technologies and stem cells from bench to bed, including organoids and the CRISPR gene editing system in the intestine Contains two major sections describing cutting-edge research for understanding stem cell functions and for developing methods specific to the intestine

In December 2010, WHO first recommended the use of the Xpert MTB/RIF assay. The WHO's policy statement was supported by a rapid implementation document, which provided the technical "how-to" and operational considerations for rolling out the use of the assay. An unprecedented uptake of this new technology followed the release of WHO's policy: by the end of March 2014, more than 2,300 GeneXpert instruments and more than 6 million Xpert MTB/RIF cartridges had been procured in the public sector in 104 countries eligible for concessional prices. An Expert Group was convened by WHO in May 2013 to review the current body of evidence on use of Xpert MTB/RIF. The resulting recommendations from the Expert Group are included in the WHO Policy update, which widens the recommended use of Xpert MTB/RIF, including for the diagnosis of paediatric TB and on selected specimens for the diagnosis of extrapulmonary TB, and includes an additional recommendation on the use of Xpert MTB/RIF as the initial diagnostic test in all individuals presumed to have pulmonary TB. The accompanying Xpert MTB/RIF implementation manual has been developed to replace the first edition and takes into consideration the current body of evidence and operational experiences available, in the context of the Policy update.

As we discover more about the role of the ocean in global changes and identify the effects of global change on the ocean, understanding its chemical composition and processes becomes increasingly paramount. However, understanding these processes requires a wide range of measurements in the vast ocean, from the sea surface to deep-ocean trenches, from the tropics to the poles. Practical Guidelines for the Analysis of Seawater provides a common analytical basis for generating quality-assured and reliable data on chemical parameters in the ocean. A source of practical know-how, the book covers sampling and storage, analytical methodology, and guidelines and procedures for quality assurance. It presents analytical methods with the step-by-step procedures that help practitioners implement these methods successfully into the laboratory, making them instantly applicable without consulting further literature. The book also contains essential information for developing or improving quality control and quality assurance programs in the laboratory. It includes the availability and measurement of standard reference materials, blank estimation and correction, control of recoveries, and statistical evaluation of quality assurance data. Analytical chemistry is a very active and fast moving area. Despite the development of innovative new analytical techniques for chemical trace element research, obtaining reliable data at ultra-trace levels remains a formidable challenge. A complete and practical guide, this book delineates proven methods that consistently yield reproducible data in routine work.

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