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Methods in Molecular Biology 665

Diagnostic Virology Protocols

Second Edition

Edited by

John R. Stephenson

Alan Warnes



Humana Press

Diagnostic Virology Protocols Methods In Molecular Biology

Allan Granoff, Robert G. Webster



Diagnostic Virology Protocols Methods In Molecular Biology:

Diagnostic Virology Protocols John R. Stephenson, Alan Warnes, 1998-08-28 A collection of cutting edge techniques for detecting most of the major viruses that afflict mankind including influenza hepatitis herpes polio mumps HIV and many more The techniques are well tested easily reproducible and readily employ all the new technologies PCR RIA ELISA and latex agglutination that have revolutionized the field These methods not only make it possible to do the necessary analysis in hours instead of days but can also be automated in a laboratory having only low levels of biological containment Frequently the protocols for viruses causing human diseases can be adapted to similar viruses of veterinary importance Through its state of the art methods a physician can for the first time determine early in a viral infection which antiviral drug should be used and minimize the period of treatment to avoid unnecessary side effects *Diagnostic Virology Protocols* John R.

Stephenson, Alan Warnes, 2020-08-23 Recent outbreaks of swine influenza and avian influenza along with the remaining and in some cases expanding threats from HIV dengue virus and the viruses causing hepatitis have reinforced the need for rapid accurate and cost effective diagnosis of viral disease *Diagnostic Virology Protocols* Second Edition brings the field fully up to date with a focus on protocols involving nucleic acid detection most often through some form of the polymerase chain reaction PCR The expert contributors also delve into the key technology of robotics as well as future prospects such as further refined point of care testing and the increasing importance of mathematical modelling Written in the highly successful *Methods in Molecular Biology* TM series format chapters include brief introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and cutting edge *Diagnostic Virology Protocols* Second Edition captures the dramatic changes in the virus diagnostic laboratory in order to better prepare scientists to combat the inevitable threats to public health from future and present infectious diseases *Manual of Molecular and Clinical Laboratory Immunology* John

L. Schmitz, Barbara Detrick, Maurice R. O'Gorman, 2024-12-24 THE authoritative guide for clinical laboratory immunology For nearly 50 years the *Manual of Molecular and Clinical Laboratory Immunology* has been the premier resource for laboratories students and professionals involved in the clinical and technical details of diagnostic immunology testing The 9th Edition continues its tradition of providing comprehensive clinical and technical information on the latest technologies used in medical and diagnostic immunology Led by a world renowned group of authors and editors this new edition reflects substantial changes aimed at improving and updating the Manual's utility while reflecting the significant transformations that have occurred since the last edition including the revolution of gene editing and the widespread adoption of molecularly engineered cellular therapies Topical highlights include Laboratory Management three new chapters cover essential aspects of quality assurance quality improvement and quality management aligning with the increasingly stringent and demanding regulatory environment Inborn Errors of Immunity the primary immunodeficiency section has been completely updated to

align with the latest International Union of Immunological Societies classifications of inborn errors of immunity Functional Cellular Assays expanded content includes detailed discussions on various functional assays critical for modern immunologic testing Autoimmune Diseases expanded chapters on systemic and organ specific autoimmune disorders including new chapters on Sjgren's syndrome and deficiency of ADA2 as well as significant updates on organ specific autoimmune diseases Transplantation Immunology updated chapters detail the assessment of immune reconstitution and ABO testing reflecting latest practices The 9th Edition of the Manual of Molecular and Clinical Laboratory Immunology serves as an invaluable resource for laboratory directors clinicians laboratory managers technologists and students It provides critical insights into the selection application and interpretation of immunologic tests offering practical guidance on troubleshooting clinical application and an understanding of test limitations This comprehensive and up to date manual remains an essential tool for anyone involved in the diagnosis evaluation and management of immune mediated and immune system related disorders

Diagnostic Bacteriology Protocols Louise O'Connor, 2008-02-05 The field of bacterial diagnostics has seen unprecedented advances in recent years The increased need for accurate detection and identification of bacteria in human animal food and environmental samples has fueled the development of new techniques The field has seen extensive research aided by the information from bacterial genome sequencing projects Although traditional methods of bacterial detection and identification remain in use in laboratories around the world there is now a growing trend toward the use of nucleic acid based diagnostics and alternative biochemically and immunologically based formats The ultimate goal of all diagnostic tests is the accurate detection identification or typing of microorganisms in samples of interest Although the resulting information is of obvious use in the areas of patient management animal health and quality control it is also of use in monitoring routes of infection and outlining strategies for infection control There is therefore a need to ensure that the information being provided is of the highest standard and that any new technique is capable of delivering this

Manual of Molecular and Clinical Lab Immunology Barbara Detrick, Robert G. Hamilton, James D. Folds, 2006-03-10 Introduces new material that reflects the significant advances and developments in the field of clinical laboratory immunology Provides a comprehensive and practical approach to the procedures underlying clinical immunology testing Emphasizes molecular techniques used in the field of laboratory immunology Updates existing chapters and adds significant new material detailing molecular techniques used in the field Presents guidelines for selecting the best procedures for specific situations and discusses alternative procedures Covers aspects of immunology related disciplines such as allergy autoimmune diseases cancers and transplantation immunology

Manual of Molecular and Clinical Laboratory Immunology Barbara Detrick, John L. Schmitz, Robert G. Hamilton, 2016-05-02 THE authoritative guide for clinical laboratory immunology For over 40 years the Manual of Molecular and Clinical Laboratory Immunology has served as the premier guide for the clinical immunology laboratory From basic serology testing to the present wide range of molecular analyses the Manual has reflected the exponential growth in the field

of immunology over the past decades This eighth edition reflects the latest advances and developments in the diagnosis and treatment of patients with infectious and immune mediated disorders The Manual features detailed descriptions of general and specific methodologies placing special focus on the interpretation of laboratory findings and covers the immunology of infectious diseases including specific pathogens as well as the full range of autoimmune and immunodeficiency diseases cancer and transplantation Written to guide the laboratory director the Manual will also appeal to other laboratory scientists especially those working in clinical immunology laboratories and pathologists It is also a useful reference for physicians mid level providers medical students and allied health students with an interest in the role that immunology plays in the clinical laboratory

Clinical Virology Manual Steven C. Specter, Richard L. Hodinka, Danny L. Wiedbrauk, Stephen A. Young, 2009-05-09 A comprehensive and updated volume for the clinical virologist Details laboratory procedures for detecting and handling viruses from specimen requirements and quality assurance to virus detection and identification from the fundamentals through the latest molecular methods Presents the most current knowledge on the wide range of specific viral pathogens Includes information on services provided by federal and state public health virology laboratories Provides essential information for clinicians and laboratory virologists

Plant Virology Protocols Gary D. Foster, Sally Taylor, 2008-02-03 The aim of Plant Virology Protocols is to provide a source of information to guide the reader through the wide range of methods involved in generating transgenic plants that are resistant to plant viruses To this end we have commissioned a wide ranging list of chapters that will cover the methods required for plant virus isolation RNA extraction cloning coat protein genes introduction of the coat protein gene into the plant genome and testing transgenic plants for resistance The book then moves on to treatments of the mechanisms of resistance the problems encountered with field testing and key ethical issues surrounding transgenic technology Although Plant Virology Protocols deals with the cloning and expression of the coat protein gene the techniques described can be equally applied to other viral genes and nucleotide sequences many of which have also been shown to afford protection when introduced into plants The coat protein has however been the most widely applied and as such has been selected to illustrate the techniques involved Plant Virology Protocols has been divided into six major sections containing 55 chapters in total

HIV Protocols Nelson Michael, Jerome H. Kim, 2008-02-01 The worldwide impact of infection with human immunodeficiency virus type 1 HIV is reflected in the cumulative number of HIV 1 infections which is now predicted to exceed 40 million by the year 2000 equivalent to the number of humans who perished in World War II The medical and scientific response to the HIV 1 pandemic has steadily grown since its recognition in 1981 The outlay by the United States alone for HIV research funded by the National Institutes of Health in 1997 was 1.4 billion Laboratory based HIV research has brought together academic clinicians retrovirologists molecular biologists and immunologists in the formation of research teams attempting to dissect the viral and host factors contributing to disease pathogenesis Increasing focus is being placed on those aspects of viral biology and host immune responses that

bear on the development of vaccines to prevent HIV infection HIV Protocols reflects the state of HIV research in several ways First chapters are organized into four sections Virology Molecular Biology Humoral Immunology and Cellular Immunology This organization is a natural consequence of the diverse scientific disciplines that have been attracted to HIV research Second the chapters reflect such diverse research directions as viral coreceptor usage quantitation of viral genomes HIV promoter function B cell epitope mapping and measurements of T cell function each of which bears on the goal of understanding the viral and host immune responses that will be critical to the design of effective preventive vaccines

Encyclopedia of Virology Allan Granoff, Robert G. Webster, 1999-07-27 In recent years progress in the field of virology has advanced at an unprecedented rate Issues such as AIDS have brought the subject firmly into the public domain and its study is no longer confined solely to specialist groups The Encyclopedia of Virology is the largest single reference source of current virological knowledge It is also the first to bring together all aspects of the subject for a wide variety of readers Unique in its use of concise mini review articles the material covers biological molecular and medical topics concerning viruses in animals plants bacteria and insects More general articles focus on the effects of viruses on the immune system the role of viruses in disease oncology gene therapy and evolution plus a wide range of related topics Drawing on the latest research the editors have produced the definitive source for both specialist and general readers Easy to use and meticulously organized the Encyclopedia of Virology clarifies and illuminates one of the most complex areas of contemporary study It will prove an invaluable addition to libraries universities medical and nursing schools and research institutions around the world The Second Edition has been thoroughly updated with approximately 40 new articles This edition includes more illustrations and color plates in each volume Updated thoroughly with approximately 40 new articles Presents more illustrations than the first edition with color plates in each volume Contains a complete subject index in each volume Provides further reading lists at the end of each entry allowing easy access to the primary literature Extensive cross referencing system links all related articles Contains the most recent information of particular viruses described at the 7th International Committee on Taxonomy and Classification of Viruses Provides the ability to search for entries alphabetically or via the taxonomical listings to access articles of different viruses

Hemostasis and Thrombosis Protocols David J. Perry, K. John Pasi, 2008-02-02 Laboratory studies in hemostasis have traditionally focused on abnormalities of platelet function or the quantitative and qualitative disorders that affect the proteins involved in blood coagulation However over the last 10 years there has been an explosion in our understanding of the molecular bases that underlie many of the inherited and acquired disorders of hemostasis Many of these disorders are now routinely diagnosed and assessed by methods that involve genotypic analysis Indeed in the late 1990s the distinction between molecular methods for research and for routine diagnosis is becoming increasingly blurred The techniques and approaches that are used in hemostasis are manifold and published in isolation in a variety of publications The aim therefore of this volume Hemostasis and Thrombosis Protocols is to pull together into a single volume

the variety of techniques that are frequently used in the field of hemostasis We have targeted this volume at laboratories who wish to move into the field of molecular hemostasis or who may already have some experience in this area but wish to develop new areas of research and diagnosis The chapters are wide ranging and hopefully provide a broad overview of the differing applications in which these standard techniques can be used Though the articles may appear relatively specific the techniques contained within them are applicable to the study of many different disorders and we hope that they provide a series of ideas and concepts well suited to problem solving

Protein Targeting Protocols Roger A. Clegg, 2008-02-04 It is by no means a revelation that proteins are not uniformly distributed throughout the cell As a result the idea that protein molecules because of the specificity with which they can engage in interactions with other proteins may be aimed via these interactions at a restricted target is a fundamental one in contemporary molecular life sciences The target may be variously conceived as a specific molecule a group of molecules a structure or a more generic type of intracellular environment Because the concept of protein targeting is intuitive rather than explicitly defined it has been variously used by different groups of researchers in cell biology biochemistry and molecular biology For those working in the field of intracellular signaling an influential introduction to the topic was the seminal article by Hubbard Cohen TIBS 1993 18 172 177 which was based on the work of Cohen's laboratory on protein phosphatases Subsequently the ideas that they discussed have been further developed and extended by many workers to other key intermediaries in intracellular signaling including protein kinases and a great variety of modulator and adaptor proteins

Polyamine Protocols David M. L. Morgan, 2008-02-02 A unique collection of hands on enzyme assay techniques to study polyamines and their function The techniques range from assay methods for enzymes of polyamine biosynthesis and catabolism to measurements of polyamines polyamine transport and polyamine effects on cell growth The methods are presented by leading researchers who have perfected them to a high art and include clear step by step instructions with numerous hints and tips to ensure readily reproducible results

Principles of Molecular Virology (Standard Edition) Alan J. Cann, 2001-03-01 Principles of Molecular Virology Third Edition provides an essential introduction to modern virology in a clear and concise manner It is a highly enjoyable and readable text with numerous illustrations that enhance the reader's understanding of important principles This edition has been updated and revised with new figures and text New to the Third Edition Viruses and Apoptosis Chapter 6 Bacteriophages and Human Disease Chapter 7 Learning objectives for each chapter Pronunciation section in Glossary and abbreviations section Appendix 1 Key events in the history of virology Appendix 3 Addition of colour in text and figures to enhance understanding of key points Also Self assessment questions at the end of each chapter Classification of Subcellular Infectious agents Approx 20% new material and completely revised throughout Over 120 figures

Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases E-Book John E. Bennett, Raphael Dolin, Martin J. Blaser, Gerald L. Mandell, 2009-10-19 After thirty years PPID is still the reference of choice for comprehensive global guidance on diagnosing and treating the most

challenging infectious diseases Drs Mandell Bennett and Dolin have substantially revised and meticulously updated this new edition to save you time and to ensure you have the latest clinical and scientific knowledge at your fingertips With new chapters expanded and updated coverage increased worldwide perspectives and many new contributors Mandell Douglas and Bennett s Principles and Practice of Infectious Diseases 7th Edition helps you identify and treat whatever infectious disease you see Consult this title on your favorite e reader conduct rapid searches and adjust font sizes for optimal readability Compatible with Kindle nook and other popular devices Get the answers to questions you have with more in depth coverage of epidemiology etiology pathology microbiology immunology and treatment of infectious agents than you ll find in any other infectious disease resource Find the latest diagnoses and treatments for currently recognized and newly emerging infectious diseases such as those caused by avian and swine influenza viruses Put the latest knowledge to work in your practice with new or completely revised chapters on influenza new pandemic strains new Middle East respiratory syndrome MERS virus probiotics antibiotics for resistant bacteria antifungal drugs new antivirals for hepatitis B and C Clostridium difficile treatment sepsis advances in HIV prevention and treatment viral gastroenteritis Lyme disease Helicobacter pylori malaria infections in immunocompromised hosts immunization new vaccines and new recommendations and microbiome Benefit from fresh perspectives and global insights from an expanded team of international contributors Find and grasp the information you need easily and rapidly with newly added chapter summaries These bulleted templates include diagnosis therapy and prevention and are designed as a quick summary of the chapter and to enhance relevancy in search and retrieval on Expert Consult Stay current on Expert Consult with a thorough and regularly scheduled update program that ensures access to new developments in the field advances in therapy and timely information Access the information you need easily and rapidly with new succinct chapter summaries that include diagnosis therapy and prevention Experience clinical scenarios with vivid clarity through a richly illustrated full color format that includes 1500 photographs for enhanced visual guidance

Clinical Immunology and Serology Christine Dorresteyn Stevens,Linda E. Miller,2016-11-17 Here s the must have information you need to understand the essential principles of immunology and to master the serology techniques most commonly used in the laboratory Easy to read student friendly coverage focuses on the direct application of theory to clinical laboratory practice preparing you for the real world in which you will practice

Forensic DNA Profiling Protocols Patrick J. Lincoln,Jim Thomson,1998-01-22 This state of the art collection of easily reproducible methods includes all of the major techniques of DNA analysis currently used in forensic identity testing The methods include the recovery of DNA from a large range of sample types analysis of DNA as single and multi locus VNTR probes PCR amplification of STR and other loci and mitochondrial sequencing The expert scientists writing here many from laboratories around the world also discuss how to interpret the results in cases of unknown identity and disputed parentage Covers all steps from extraction of human DNA through to analysis and interpretation Takes advantage of new methodologies such as capillary electrophoresis Clear step by

step instructions ensure unfailing reproducibility **Encyclopedia of Toxicology** Philip Wexler, Bruce D. Anderson, 2005
The Encyclopedia of Toxicology second edition continues its comprehensive survey of toxicology This new edition presents entries devoted to specific chemicals the international scope of organizations included has been broadened and articles describing a number of well known toxic related incidents such as Chernobyl and Three Mile Island are included Along with the traditional scientifically based entries new articles focus on the societal implications of toxicological knowledge including environmental crimes chemical and biological warfare in ancient times and a history of the U S environmental movement With more than 1150 entries this second edition has been expanded in length breadth and depth and provides an extensive overview of the many facets of toxicology Midwest *Principles of Molecular Virology* Alan Cann, 2001 Principles of Molecular Virology Fourth Edition provides an essential introduction to modern virology in a clear and concise manner It is a highly enjoyable and readable text with numerous illustrations that enhance the reader s understanding of important principles New material on virus structure virus evolution zoonoses bushmeat SARS and bioterrorism Standard version includes CD ROM with FLASH animations virtual interactive tutorials and experiments self assessment questions useful online resources along with the glossary classification of subcellular infectious agents and history of virology Clinical Immunology and Serology Christine Dorresteyn Stevens, Linda E Miller, 2016-10-05 The perfect balance of theory and practice Here s the must have information you need to understand the essential principles of immunology and to master the serology techniques most commonly used in the laboratory Easy to read student friendly coverage focuses on the direct application of theory to clinical laboratory practice preparing you for the real world in which you will practice The 4th Edition of this popular text has been completely updated and revised throughout to reflect the latest advances in the field A brand new full color layout makes the content easier to understand than ever before

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