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Anyone pursuing a career in the medical laboratory will want to have this comprehensive, yet straightforward, text. *Essentials of Immunology and Serology* doesn't just study the components of the immune system, it covers the way in which these components combine to generate the immune response and how these responses relate to infectious diseases, autoimmunity,

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tumors, hypersensitivity and transplantation. Covers the application and interpretation of a wide array of medical test kits, unlike other texts that focus only on one outdated procedure. An ideal resource for users pursuing medical lab careers that meets the immunology guidelines of the American Society of Clinical Pathologists. Key Words: immunology, serology, laboratory, immune system, autoimmunity, clinical pathology, An excellent companion to Rodak's Hematology: Clinical Principles & Applications, this atlas is ideal for helping you accurately identify cells at the microscope. It offers complete coverage of the basics of hematologic morphology, including examination of the peripheral blood smear, basic maturation of the blood cell lines, and discussions of a variety of clinical

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disorders. Over 400 photomicrographs, schematic diagrams, and electron micrographs visually clarify hematology from normal cell maturation to the development of various pathologies. Normal Newborn Peripheral Blood Morphology chapter covers the unique normal cells found in neonatal blood. A variety of high-quality schematic diagrams, photomicrographs, and electron micrographs visually reinforce your understanding of hematologic cellular morphology. Spiral binding and compact size make this book easy to use in a laboratory setting. Coverage of common cytochemical stains, along with a summary chart for interpretation, aids in classifying malignant and benign leukoproliferative disorders. Morphologic abnormalities are

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presented in chapters on erythrocytes and leukocytes, along with a schematic description of each cell, to provide correlations to various disease states. Body Fluids chapter covers the other fluids found in the body besides blood, using images from cytocentrifuged specimens. Updated information on the subtypes of chronic lymphocytic leukemia (CLL) helps you recognize variant forms of CLL you may encounter in the lab.

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

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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

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interest in the role that immunology plays in the clinical laboratory. For undergraduate and graduate courses covering immunology in biotechnology programs, medically oriented immunology courses, and clinical laboratory technician/medical laboratory technician (CLT/MLT) and clinical laboratory science/medical technology (CLS/MT) education programs. This ISBN is for the Pearson eText access card. A complete, up-to-date introduction to immunology, for the clinical immunology professional Contemporary Clinical Immunology and Serology, 2nd Edition, takes students from basic vocabulary through common immunoassays to closer consideration of diseases that require immunologic methods of diagnosis. Reflecting extensive input

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from leading clinical immunology professionals, the text presents today's newest professional techniques and prepares learners to apply lab data to the delivery of superior patient care. A detailed case study and critical thinking questions in each chapter get students thinking like practitioners. Pearson eText is a simple-to-use, mobile-optimized, personalized reading experience that can be adopted on its own as the main course material. It lets students highlight and take notes all in one place, even when offline. Educators can easily customize the table of contents, schedule readings, and share their own notes with students so they see the connection between their eText and what they learn in class - motivating them to keep reading, and keep learning. And, reading analytics

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Clinical Laboratory Management

Clinical Chemistry, Immunology and
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Here's the practical introduction

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you need to understand the essential theoretical principles of clinical immunology and the serological and molecular techniques commonly used in the laboratory. You'll begin with an introduction to the immune system; then explore basic immunologic procedures; examine immune disorders; and study the serological and molecular diagnosis of infectious disease. An easy-to-read, student-friendly approach emphasizes the direct application of theory to clinical laboratory practice. Each chapter is a complete learning module with learning outcomes, chapter outlines, theoretical principles, illustrations, and definitions of relevant

terminology. Review questions and case studies help you assess your mastery of the material. A glossary at the end of the book puts must-know information at your fingertips.

*This complete, up-to-date introduction to immunology takes students from basic vocabulary through common immunoassays to closer consideration of the specific diseases that require immunologic methods of diagnosis. **CLINICAL IMMUNOLOGY AND SEROLOGY** presents today's newest professional techniques, thoroughly preparing students to work in modern clinical immunology laboratories, understand the data generated*

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there, and apply the conclusions to deliver superior patient care. Full-color charts and illustrations engage students and enhance comprehension, and the text's content has been extensively classroom-tested. It contains the most up-to-date information to accurately reflect what is done in the clinical immunology laboratory. Every chapter contains review and critical thinking questions, as well as a detailed case study.

Clinical Immunology and

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Perspective F.A. Davis

Using a discipline-by-discipline

approach, Linne & Ringsrud's

Clinical Laboratory Science:

Concepts, Procedures, and Clinical Applications, 7th Edition provides a fundamental overview of the skills and techniques you need to work in a clinical laboratory and perform routine clinical lab tests. Coverage of basic laboratory techniques includes key topics such as safety, measurement techniques, and quality assessment. Clear, straightforward instructions simplify lab procedures, and are described in the CLSI (Clinical and Laboratory Standards Institute) format. Written by well-known CLS educator Mary Louise Turgeon, this text includes perforated pages so you can easily detach procedure sheets and use them as a reference

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in the lab! Hands-on procedures guide you through the exact steps you'll perform in the lab. Review questions at the end of each chapter help you assess your understanding and identify areas requiring additional study. A broad scope makes this text an ideal introduction to clinical laboratory science at various levels, including CLS/MT, CLT/MLT, and Medical Assisting, and reflects the taxonomy levels of the CLS/MT and CLT/MLT exams. Detailed full-color illustrations show what you will see under the microscope. An Evolve companion website provides convenient online access to all of the procedures in the text, a

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glossary, audio glossary, and links to additional information. Case studies include critical thinking and multiple-choice questions, providing the opportunity to apply content to real-life scenarios. Learning objectives help you study more effectively and provide measurable outcomes to achieve by completing the material. Streamlined approach makes it easier to learn the most essential information on individual disciplines in clinical lab science. Experienced author, speaker, and educator Mary Lou Turgeon is well known for providing insight into the rapidly changing field of clinical laboratory science. Convenient glossary makes it easy to

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*look up definitions without having
to search through each chapter.*

*NEW! Procedure worksheets have
been added to most chapters;
perforated pages make it easy for
students to remove for use in the lab
and for assignment of review
questions as homework. NEW!*

*Instrumentation updates show new
technology being used in the lab.*

*NEW! Additional key terms in each
chapter cover need-to-know*

*terminology. NEW! Additional
tables and figures in each chapter
clarify clinical lab science concepts.*

Laboratory Methods in Immunology

Rodak's Hematology - E-Book

Clinical Principles and Applications

Immunology & Serology in

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A Complete Review

Accurate Results in the Clinical

Laboratory

This is a Pageburst digital textbook; Completely updated, the 4th edition of this classic resource offers the current, comprehensive coverage of immunology you need to stay on the cutting-edge of clinical laboratory science. It provides a solid foundation of knowledge and skills to take you from basic immunologic mechanisms and serologic concepts to the theory behind the procedures you'll perform in the lab, including automated techniques. It also explores

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the medical applications of clinical laboratory science, with information on disorders of infectious and immunologic origin, as well as topics such as transplantation and tumor immunology. Learning objectives, review questions, step-by-step procedures, and case studies help you master key concepts and prepare you to succeed in today's modern laboratory environment. Author Mary Louise Turgeon, a leader in the field of clinical laboratory science, shares with you her wealth of knowledge and experience in this outstanding textbook. The book's two-color design

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provides you with at-a-glance access to special features and vital information. In-depth chapter outlines prepare you for the material you will be learning in each chapter and help you see how the topics flow and connect to each other. Learning objectives at the beginning of each chapter allow you to set study goals and assess your progress as you move through the textbook. Highlights at the end of every chapter summarize the most important points you should take away from the chapter. Review questions help you assess and reinforce your understanding of chapter

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content. Case studies in many of the chapters allow you to see how key concepts apply to real-life scenarios. Hands-on procedure coverage in many chapters offer detailed descriptions of exactly what happens during every step of laboratory procedures. A convenient glossary of key terms in the back of the book provides quick access to definitions for new or unfamiliar words. In addition to completely updated content throughout, four new chapters on quality assurance and quality control, basic serologic laboratory techniques, point-of-care testing, and

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vaccines bring you the latest advances in the field. Expanded coverage of automated procedures and molecular techniques keep you up to date on technology and research. A new full-color insert serves as a vivid visual reference and helps you more easily master complex concepts. A companion Evolve website offers online access to a wealth of additional review questions, content updates, and web links.

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Most of the diseases of modern mankind involve either acute or chronic inflammation. Measuring Immunity integrates the current information available on biomarkers and surrogate assays into a single handbook. It highlights the principles behind various applications, gives a brief summary on how they are conducted and

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provides detailed and critical analyses of murine models of immunity, clinical trials, and tests to predict utility and benefit.

Measuring Immunity is indispensable for scientists and clinicians interested in the clinical applications of modern immunobiology. *

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Assesses the dynamics of cellular and soluble factors in the peripheral blood using modern techniques *

Includes basic science foundations as well as the approaches currently applied

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NOTE: This loose-leaf, three-hole punched version of the textbook gives you the flexibility to take only what you need to class and add your own notes - all at an affordable price. For loose-leaf editions that include MyLab(tm) or Mastering(tm), several versions may exist for each title and registrations are not transferable. You may need a Course ID, provided by your instructor, to register for and use MyLab or Mastering products. For courses in hematology and coagulation. Comprehensive survey of laboratory hematology, for both MLT and MLS students Clinical

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Laboratory Hematology balances theory and practical applications in a way that is engaging and useful to medical laboratory technician and science (MLT/MLS) students, at all levels. Detailed technical information combined with a running, realistic case study provide ample opportunities to analyze and synthesize information, answer questions and solve problems, and consider real-world applications. The 4th edition has been thoroughly updated with the latest advances in laboratory medicine and with updated content on iron metabolism and myelodysplastic

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syndromes. Clinical
Laboratory Hematology , 4th
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this valuable review book prepares a wide range of laboratory professionals for certification examinations by presenting them with the latest technology and terminology, as well as current test taking formats. Its large number of practice questions, variety of practice modes, and explanations for clarification prepare learner for success on examinations. Comprehensive coverage of laboratory medicine includes clinical chemistry, hematology, hemostasis, immunology, immunohematology, microbiology, uranalysis and body fluids, molecular diagnostics, laboratory calculations, general laboratory principles and safety, laboratory management, education, and computers and laboratory informatics. For clinical laboratory directors, pathologists specializing in laboratory medicine,

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resident and attending physicians, hematologists, chemists, immunohematologists, microbiologists, biosafety officers, nurse practitioners, physician assistants, and infection control practitioners.

Practical, focused, and reader friendly, this popular text teaches the theoretical and practical knowledge every clinical laboratory scientist needs to handle and analyze non-blood body fluids, and to keep you and your laboratory safe from infectious agents. The 5th Edition has been completely updated to include all of the new information and new testing procedures that are important in this rapidly changing field. Case studies and clinical situations show how work in the classroom translates to work in the lab. This unique resource is the first covering molecular diagnostic technology that is specifically geared to

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the needs of those in clinical laboratory science or medical technology. This book covers molecular diagnostic technology and the multidisciplinary clinical applications of this technology. Topics include: immunology; infectious and autoimmune diseases; clinical applications of the flow of cytometry; organ transplantation; molecular methods and more. Clinical Laboratory Science / Medical Technology students. Make sure you are thoroughly prepared to work in a clinical lab. Rodak's Hematology: Clinical Principles and Applications, 6th Edition uses hundreds of full-color photomicrographs to help you understand the essentials of hematology. This new edition shows how to accurately identify cells, simplifies hemostasis and thrombosis concepts, and covers normal hematopoiesis through diseases of

erythroid, myeloid, lymphoid, and megakaryocytic origins. Easy to follow and understand, this book also covers key topics including: working in a hematology lab; complementary testing areas such as flow cytometry, cytogenetics, and molecular diagnostics; the parts and functions of the cell; and laboratory testing of blood cells and body fluid cells. UPDATED nearly 700 full-color illustrations and photomicrographs make it easier for you to visualize hematology concepts and show what you'll encounter in the lab, with images appearing near their mentions in the text to minimize flipping pages back and forth. UPDATED content throughout text reflects latest information on hematology. Instructions for lab procedures include sources of possible errors along with comments.

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Hematology instruments are described, compared, and contrasted. Case studies in each chapter provide opportunities to apply hematology concepts to real-life scenarios. Hematology/hemostasis reference ranges are listed on the inside front and back covers for quick reference. A bulleted summary makes it easy for you to review the important points in every chapter. Learning objectives begin each chapter and indicate what you should achieve, with review questions appearing at the end. A glossary of key terms makes it easy to find and learn definitions. NEW! Additional content on cell structure and receptors helps you learn to identify these organisms. NEW! New chapter on Introduction to Hematology Malignancies provides and overview of diagnostic technology and techniques used in the lab.

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Interpretation of Equine Laboratory Diagnostics offers a comprehensive approach to equine laboratory diagnostics, including hematology, clinical chemistry, serology, body fluid analysis, microbiology, clinical parasitology, endocrinology, immunology, and molecular diagnostics. Offers a practical resource for the accurate interpretation of laboratory results, with examples showing real-world applications

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Covers hematology, clinical chemistry, serology, body fluid analysis, microbiology, clinical parasitology, endocrinology, immunology, and molecular diagnostics Introduces the underlying principles of laboratory diagnostics Provides clinically oriented guidance on performing and interpreting laboratory tests Presents a complete reference to establish and new diagnostic procedures Offers a practical resource for the accurate interpretation of laboratory results, with examples showing real-world applications Covers hematology, clinical chemistry, serology, body fluid analysis, microbiology, clinical parasitology, endocrinology, immunology, and molecular diagnostics Introduces the underlying

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principles of laboratory diagnostics

Provides clinically oriented guidance
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laboratory tests Presents a complete
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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
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advances in the field. A brand-new full-color layout makes the content easier to understand than ever before.

This text is geared for readers with little or no experience in immunology or clinical medicine, and provides an understanding of what the immune system does, how it protects the body, and how immunologic principles apply to an ever-increasing array of laboratory tests.

Rev. ed. of: Immunology and serology in laboratory medicine / Mary Louise Turgeon. 4th ed. c2009.

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and Serology

Urinalysis & Body Fluids

A Laboratory Perspective by Stevens,
Christine

This is a concise, highly accessible introduction to medical virology, incorporating essential basic principles as well as a systematic review of viruses and viral diseases. It pays particular attention to developments in anti-viral therapy that are becoming increasingly effective in modern medicine. It is an ideal textbook for the information-overloaded student and an invaluable everyday companion for the busy professional who needs a good understanding of the current state of medical virology. In keeping with the highly successful format of

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other Illustrated Colour Texts, it presents the subject as a series of succinct 2 page 'learning units', using a superb collection of clear illustrations and clinical photographs, concise yet comprehensive text and key point boxes to aid quick access to information and examination preparation. So whether you are a medical student, junior doctor, medical scientist, trainee in infectious diseases or student on another allied medical course, this book is here to make your life easier! It will also provide a very solid foundation for any who plan to delve deeper into this fascinating field. Part of the popular Illustrated Colour Text series Information

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presented in double page spreads for easy learning Highly illustrated with both full colour graphics and clinical photographs Each spread includes a key point box for exam preparation This two-volume reference details immunological techniques for biologists of all disciplines. Volume I includes a detailed discussion of the tissue culture laboratory. It addresses what the lab needs to be, and the general "housekeeping" procedures involved in tissue culture. Presented next are chapters on specific aspects of tissue culture and hybridoma technology. The book includes a review of bioassays for interleukins, and a series of papers on lymphokines and functional assays in vitro. The section on

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molecular genetic studies begins with consideration of the choice of strategies for cloning the genes of cell surface molecules. It continues with papers on aspects of molecular biological techniques most closely related to immunology. The final section covers immunochemical techniques. Volume II reviews techniques used with small laboratory animals. It includes papers on specialized procedures with animals. Technical aspects are emphasized through a detailed analysis of effects of ultraviolet light on the immune system. Covered also is antigen detection in cells and tissue. The book addresses the important areas of protein purification using monoclonal

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antibodies. These two volumes are of great importance to those who use immunological techniques, whether they are immunologists or trained in other disciplines. The book is intended for those in animal science, veterinary science, genetics and cell biology, bacteriology, immunology, pathology, biochemistry, laboratory medicine, and hematology.

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. This complete, up-to-date introduction to immunology takes students from basic vocabulary through common immunoassays to closer consideration of the specific diseases

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that require immunologic methods of diagnosis. CLINICAL IMMUNOLOGY AND SEROLOGY presents today's newest professional techniques, thoroughly preparing students to work in modern clinical immunology laboratories, understand the data generated there, and apply the conclusions to deliver superior patient care. Full-color charts and illustrations engage students and enhance comprehension, and the text's content has been extensively classroom-tested. It contains the most up-to-date information to accurately reflect what is done in the clinical immunology laboratory. Every chapter contains review and critical thinking questions, as well as

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Clinical Immunology & Serology

Manual of Molecular and Clinical

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Immunology and Serology

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are two major science fields. Immunology is defined as the study of the molecules, cells, organs, and systems responsible for the recognition and disposal of foreign material. Immunology began as a branch of microbiology. The study of infectious disease and the body's response to them has a major role for the development of immunology. Moreover, the concept of germ theory of disease has contributed to the field of immunology. It was Edward Jenner who first

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studied the response of the body to foreign substances. He observed that dairy maids who had naturally contracted a mild infection called cowpox seemed to be protected against smallpox, a horribly disfiguring disease and a major killer. Serology is the diagnostic identification of antibodies in the serum and other bodily fluids. Such antibodies are typically formed in response to an infection (against a given microorganism), against

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other foreign proteins (in response, for example, to a mismatched blood transfusion), or to one's own proteins (in instances of autoimmune disease). Serological tests may be performed for diagnostic purposes when an infection is suspected, in rheumatic illnesses, and in many other situations, such as checking an individual's blood type. Serology blood tests help to diagnose patients with certain immune deficiencies associated with the lack of antibodies, such as X-

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linked agammaglobulinemia. In such cases, tests for antibodies will be consistently negative. There are several serology techniques that can be used depending on the antibodies being studied. These include: ELISA, agglutination, precipitation, complement-fixation, and fluorescent antibodies and more recently chemiluminescence. Some serological tests are not limited to blood serum, but can also be performed on other bodily fluids such as semen and saliva,

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and Spinal fluid (CSF)

which may contain antibodies. This book starts with a small historical introduction to Immunology. The next chapters (sections 1 to 4) give examples of Serology applied to infectious diseases (HPV, Hepatitis, Malaria and Dengue). Section 5 is dedicated to the application of serology to celiac diagnosis. Section 6 shows the application of serology to other pathogen (Lyme disease, Sjögren's syndrome, Chlamydia pneumoniae, HIV, Influenza

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virus, Mycobacterium, Toxoplasmosis and Leprosy). Several serologic based diagnostic techniques are used and are being developed daily, making this one of the biggest fields in science research.

The 5th edition of this classic text sets the standard for comprehensive coverage of immunology. Building from a solid foundation of knowledge and skills, trusted author Mary Louise Turgeon takes you from basic immunologic mechanisms and serologic concepts to the theory

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behind the procedures you'll perform in the lab. Immunology & Serology in Laboratory Medicine, Fifth Edition is the go-to resource for everything from mastering automated techniques to understanding immunoassay instrumentation and disorders of infectious and immunologic origin. Packed with learning objectives, review questions, step-by-step procedures, and case studies, this text is your key to succeeding in today's modern laboratory environment. Full-color,

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six-page insert of photomicrographs provide a better picture of what you'll see in the laboratory. Learning objectives at the beginning of each chapter offer a measurable outcome you can achieve by completing the material. Chapter highlights at the end of each chapter provide a summary of the most important information covered in each chapter. Review questions at the end of each chapter are tied to learning objectives further enhance your understanding. Case

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studies challenge you to apply your knowledge and help strengthen your critical thinking skills. Glossary at the end of the book provides quick access to key terms and definitions. NEW! Expanded chapter on Vaccines as the importance of vaccines continues to become more evident. NEW! Updated chapter on Molecular Techniques incorporates the newest technology specific to immunology. NEW! Key terms at the beginning of each chapter help you learn the important vocabulary in

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immunology. NEW! Case studies with added multiple-choice questions in addition to critical thinking questions will help you apply your knowledge and develop critical-thinking skills. If you're looking to succeed in today's modern laboratory environment, then you need the insightful guidance found in Immunology & Serology in Laboratory Medicine, 6th Edition. Continuing to set the standard for comprehensive coverage of immunology, this must-have resource covers everything

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from mastering automated techniques to understanding immunoassay instrumentation and disorders of infectious and immunologic origin. As with previous editions, trusted author, teacher and former university program director, Mary Louise Turgeon helps you build a solid foundation of knowledge and skills by taking you from basic immunologic mechanisms and serologic concepts to the theory behind the procedures you will encounter in the lab. And now with a new full-color

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design, additional case studies, wealth of content updates, and new features, there's never been more reason to rely on Turgeon to stretch your critical thinking skills and fully prepare for success in the clinical lab.

Comprehensive immunology coverage features the latest illustrations, photographs and summary tables to help clarify various concepts and information visually. Emphasis on critical thinking utilizes case studies to challenge readers to apply their

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knowledge to practice.

Procedural protocols move readers from immunology theory to practical aspects of the clinical lab. Chapter highlights and review questions at the end of each chapter offer opportunities for review and self-assessment. Learning objectives and key terms at the beginning of each chapter outline the important vocabulary, information, and concepts found in the chapter. Glossary at the end of the book provides a quick reference to key terms and

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definitions. NEW! Full color diagrams and micrographs increases comprehension and gives readers a much better sense of what they will encounter in the lab. NEW! Updated content on vaccines, tumor immunology, transplant rejection, immunotherapies, instrumentation for molecular diagnosis, the immune response, and more ensures readers are prepared for immunology in today's clinical lab. NEW! Additional case studies allow readers to apply

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knowledge to real world situations and stretch their critical thinking skills. NEW! Reformatted chapter review questions reflect the multiple choice styles encountered on exams.

All pathology residents must have a good command of clinical chemistry, toxicology, immunology, and laboratory statistics to be successful pathologists, as well as to pass the American Board of Pathology examination. Clinical chemistry, however, is a topic in which many senior medical

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students and pathology residents face challenges. Clinical Chemistry, Immunology and Laboratory Quality Control meets this challenge head on with a clear and easy-to-read presentation of core topics and detailed case studies that illustrate the application of clinical chemistry knowledge to everyday patient care. This basic primer offers practical examples of how things function in the pathology clinic as well as useful lists, sample questions, and a bullet-point format

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ideal for quick pre-Board review. While larger textbooks in clinical chemistry provide highly detailed information regarding instrumentation and statistics, this may be too much information for students, residents, and clinicians. This book is designed to educate senior medical students, residents, and fellows, and to "refresh" the knowledge base of practicing clinicians on how tests are performed in their laboratories (i.e., method principles, interferences, and

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limitations). Takes a practical and easy-to-read approach to understanding clinical chemistry and toxicology Covers all important clinical information found in larger textbooks in a more succinct and easy-to-understand manner Covers essential concepts in instrumentation and statistics in such a way that fellows and clinicians understand the methods without having to become specialists in the field Includes chapters on drug-herb interaction and pharmacogenomics, topics

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Basic Science and Clinical
Practice

Studyguide for Clinical
Immunology and Serology

***Clinical laboratory
tests play an integral
role in helping
physicians diagnose and***

treat patients. New developments in laboratory technology offer the prospect of improvements in diagnosis and care, but will place an increased burden on the payment system. Medicare, the federal program providing coverage of health-care services for the elderly and disabled, is the largest payer of clinical laboratory services. Originally designed in the early 1980s, Medicare's payment

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