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HEMATOPATHOLOGY Q BANK Elsevier Health Sciences
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. 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.

Schalm's Veterinary Hematology Iowa State Press
Combining essential hematology content with the diagnostic features of an atlas, Veterinary Hematology: A Diagnostic Guide and Color Atlas delivers all the information you need to accurately assess and diagnose the blood diseases of common domestic animals — including dogs, cats, horses, cattle, sheep, goats, pigs, and llamas. This all-in-one resource utilizes a clinically-oriented and user-friendly approach to guide you through the processes of selecting relevant diagnostic tests, collecting and preparing samples, interpreting sample results, and determining their clinical significance. High-resolution photomicrographs, full-color illustrations, and excellent schematic drawings, tables, and quick-reference algorithms help you clearly visualize these concepts and procedures. Two books in one gives you the information of a user-friendly, clinical textbook and the diagnostic features of a color atlas in a single reference. Practical, clinically-relevant text is comprehensive and yet concise in its delivery of vital information such as: Principles and procedures that are employed in recognizing normal, abnormal, and artifactual features of blood and bone marrow samples and developing accurate diagnoses Common cytochemical stains and summary charts for interpretation Sample collection, staining procedures, and diagnostic techniques Differentiating features of malignant and benign hematologic disorders Miscellaneous cells and blood parasites and their significance in the evaluation of blood smears Hematopoietic and non-hematopoietic neoplasms High-resolution photomicrographs and excellent schematic drawings, tables, boxes and quick-reference algorithms aid your understanding of basic clinical concepts and differential diagnostic considerations. Over 800 full-color illustrations help you clearly visualize the concepts and clinical features of the blood and bone marrow — from normal cell maturation to the development of various pathologies.

Basic Method Validation Elsevier Health Sciences
Blood CellsJohn Wiley & Sons
Platelets Elsevier Health Sciences
Featuring hundreds of full-color photomicrographs, Hematology: Clinical Principles and Applications prepares you for a job in the clinical lab by exploring the essential

aspects of hematology. It shows how to accurately identify cells, simplifies hemostasis and thrombosis concepts, and covers normal hematopoiesis through diseases of erythroid, myeloid, lymphoid, and megakaryocytic origins. This book also makes it easy to understand complementary testing areas such as flow cytometry, cytogenetics, and molecular diagnostics. Well-known authors Bernadette Rodak, George Fritsma, and Elaine Keohane cover everything from working in a hematology lab to the parts and functions of the cell to laboratory testing of blood cells and body fluid cells. Full-color illustrations make it easier to visualize complex concepts and show what you ’ ll encounter in the lab. Learning objectives begin each chapter, and review questions appear at the end. Instructions for lab procedures include sources of possible errors along with comments. Case studies provide opportunities to apply hematology concepts to real-life scenarios. Hematology instruments are described, compared, and contrasted. Coverage of hemostasis and thrombosis includes the development and function of platelets, the newest theories of normal coagulation, and clear discussions of platelet abnormalities and disorders of coagulation. A bulleted summary of important content appears at the end of every chapter. A glossary of key terms makes it easy to find and learn definitions. Hematology/hemostasis reference ranges are listed on the inside front and back covers for quick reference. Respected editors Bernadette Rodak, George Fritsma, and Elaine Keohane are well known in the hematology/clinical laboratory science world. Student resources on the companion Evolve website include the glossary, weblinks, and content updates. New content is added on basic cell biology and etiology of leukocyte neoplasias. Updated Molecular Diagnostics chapter keeps you current on techniques being used in the lab. Simplified hemostasis material ensures that you can understand this complex and important subject. Coverage of morphologic alteration of monocytes/macrophages is condensed into a table, as the disorders in this grouping are more of a biochemical nature with minimal hematologic evidence. Biomarkers in Toxicology F.A. Davis
With hundreds of images, step-by-step procedures, and a practical clinical emphasis, Small Animal Internal Medicine, 6th Edition offers the foundation and tools you need to properly recognize, diagnose, and treat small animals with common internal conditions. Each section of the text takes a problem-oriented approach that begins with a discussion of clinical signs, diagnostic recommendations, and techniques; and then moves to therapeutic considerations and management. This edition also includes two all-new chapters (neonatology and the effects of specific heart diseases respectively) as well as extensive updates throughout covering new advancements, techniques, and evolving best practices in the field of small animal internal medicine. NEW! Two new chapters detail two key emerging areas within small animal medicine: neonatology and the effects of specific heart diseases. NEW! Extensive updates throughout the text keep you informed of changes and evolutions in the field, specifically in the areas of: ultrasound; probiotics; obesity; feline radiation therapy; feline diabetes; feline hyperthyroidism; canine influenza; canine Cushing ’ s disease; orphan puppy and kitten considerations; seizure treatments; spinal cord disorders; hematology and oncology; plus new diseases, diagnostics, and therapeutics that affect small animal medicine overall.

Veterinary Hematology - E-Book Elsevier Health Sciences
This book offers a state-of-the-art, evidence-based reference to all aspects of veterinary cytology. Truly multidisciplinary in its approach, chapters are written by experts in fields ranging from clinical pathology to internal medicine, surgery, ophthalmology, and dermatology, drawing the various specialties together to create a comprehensive picture of cytology's role in diagnosis and treatment of animal disease. Firmly grounded in the primary literature, the book focuses on companion animals, with special chapters for species with fewer publications. Chapters are logically organized by body system, with additional chapters on tumors of particular import and diagnostic decision making. The first two sections of Veterinary Cytology focus on cytology techniques, quality control, and special laboratory techniques. Subsequent sections are organ/tissue-based and reflect what is known about the canine, feline, and equine species. This is followed by chapters on non-traditional species, including exotic companion mammals, rabbits, cattle, camelids, non-human primates, reptiles and birds, amphibians, fish, invertebrates, and sheep and goats. The last section highlights some unique features of the applications of cytology in industry settings. Provides a gold-standard reference to data-driven information about cytologic analysis in companion animal species Brings together authors from a wide range of specialties to present a thorough survey of cytology's use in veterinary medicine Offers broader species coverage and greater depth than any cytology reference currently available **Veterinary Cytology** is an essential resource for clinical and anatomic pathologists and any specialist in areas using cytology, including veterinary oncologists, criticalists, surgeons, ophthalmologists, dermatologists, and internists.

Hematology in Practice Academic Press
For more than 65 years, this best-selling text by Drs. Barbara J. Bain, Imelda Bates, and Mike A. Laffan has been the worldwide standard in laboratory haematology. The 12th Edition of Dacie and Lewis Practical Haematology continues the tradition of excellence with thorough coverage of all of the techniques used in the investigation of patients with blood disorders, including the latest technologies as well as traditional manual methods of measurement. You ’ ll find expert discussions of the principles of each test, possible causes of error, and the interpretation and clinical significance of the findings. A unique section on haematology in under-resourced laboratories. Ideal as a laboratory reference or as a comprehensive exam study tool. Each templated, easy-to-follow chapter has been completely updated, featuring new information on haematological diagnosis, molecular testing, blood transfusion- and much more. Complete coverage of the latest advances in the field. An expanded section on coagulation now covers testing for new anticoagulants and includes clinical applications of the tests.

Elsevier Health Sciences
Learn how to accurately analyze urine and body fluids with **Fundamentals of Urine and Body Fluid Analysis**, 5th Edition. Known for its clear writing style, logical organization, and vivid full-color illustrations, this renowned text offers the perfect level and depth of information for understanding the fundamental principles of urine and body fluids frequently encountered in the clinical laboratory. This includes the collection and analysis of urine, fecal specimens, vaginal secretions, and other body fluids such as cerebrospinal, synovial, seminal, amniotic, pleural, pericardial, and peritoneal fluids. Author Nancy Brunzel also shares her extensive knowledge and expertise in the field as she highlights key information and walks you through essential techniques and procedures — showing you how to correlate data with your knowledge of basic anatomy and physiology in order to understand pathologic processes. Study questions and case studies in each chapter reinforce comprehension and application, with an answer key located in the back of the book. **UNIQUE!** Table of crystal images based on shape serves as a single, comprehensive guide to the identification of crystals in urine sediment. **UNIQUE!** Image Gallery of Urine Sediment provides alternate views of sediment components to augment the numerous classic photomicrographs already present in the Microscopic Examination of Urine chapter. **UNIQUE!** Quick Guides to urine and body fluid photomicrographs make it fast and easy to find a photo of a specific cell type or component of interest. **UNIQUE!** Tables with high quality polarizing microscopy photomicrographs demonstrate the differences in birefringent intensity of substances with and without a red compensator. The most complete collection of high-quality, full-color images enables optimal identification of microscopic components in urine and other body fluids. NEW! Fully updated content provides valuable information on the latest techniques and advances in the field. NEW! Enhanced content, new tables, and new images facilitate the microscopic differentiation of monocytes, macrophages, and mesothelial cells in pleural, peritoneal, and pericardial fluids. NEW! More than 250 photomicrographs of cells and other components in body fluid and urine sediment serve as a visual quick reference for identification during analysis. NEW! Thumbprint images embedded in numerous tables enhance learning and serve as an invaluable resource when performing fluid analysis at the bench.

Hematology - E-Book McGraw Hill Professional
A quick guide to appropriately selecting and interpreting laboratory tests, **Small Animal Clinical Diagnosis by Laboratory Methods**, 5th Edition helps you utilize your in-house lab or your specialty reference lab to efficiently make accurate diagnoses without running a plethora of unnecessary and low-yield tests. It provides answers to commonly asked questions relating to laboratory tests, and solutions to frequently encountered problems in small animal diagnosis. For easy reference, information is provided by clinical presentation and abnormalities, and includes hundreds of tables, boxes, key points, and algorithms. This edition, now in full color, is updated with the latest advances in laboratory testing methods and diagnostic problem solving. Written by noted educators Dr. Michael Willard and Dr. Harold Tvedten, this book may be used as an on-the-spot guide to specific problems or conditions as well as a reference for more detailed research on difficult cases. Concise discussions address laboratory approaches to various disorders, possible conclusions from various test results, artifacts and errors in diagnoses, and interpretations leading to various diagnoses. Hundreds of tables, boxes, algorithms, and key points offer at-a-glance information including cautions, common pitfalls, and helpful "pearls," and lead to proper differential and clinical diagnostic decision making. Note boxes identify key considerations in correlating clinical signs with test data for accurate diagnoses, highlight safety precautions, and offer helpful tips for sample preparation and interpretation. Chapters on laboratory diagnostic toxicology and therapeutic drug monitoring help in handling potentially fatal poisonings and other special situations. Expert editors and contributors provide clinical knowledge and successful diagnostic problem-

solving solutions. A practical appendix lists referral laboratories that may be contacted for certain diseases, and reference values with the normal or expected range for coagulation, hematology, and more. Updated coverage integrates the newest advances in testing methods and diagnostic problem solving. Full-color photos and schematic drawings are placed adjacent to related text, and accurately depict diagnostic features on microscopic slide preparations as well as test procedures and techniques.

Automated Hematology Analyzers: State of the Art, An Issue of Clinics in Laboratory Medicine, Elsevier

Expertly edited and endorsed by the International Society for Laboratory Hematology, this is the newest international textbook on all aspects of laboratory hematology. Covering both traditional and cutting-edge hematology laboratory technology this book emphasizes international recommendations for testing practices. Illustrative case studies on how technology can be used in patient diagnosis are included. Laboratory Hematology Practice is an invaluable resource for all those working in the field.

Validation of Complete Blood Count Methodology, and Determination of the Relationship Between Endoparasite Load and Erythrocyte Values in New World Camelids Elsevier Health Sciences

Clinical laboratory directors and staff working with blood samples will benefit from the essential information in this hematology focused publication in Clinics in Laboratory Medicine. Leading a field of expert authors are two renown physicians in the field - Dr Carlo Brugnara and Dr Alexander Kratz. They present topics such as White Blood Cell Counts: Reference Methodology; Integration of Automated Heme and Bone Marrow Analysis; Red Cell Dynamics; Red Cell Diagnosis other than Anemia; Laboratory and Genetic Assessment of Iron Deficiency in Blood Donors; Body Fluid Cell Counting; Platelets: The Few, the Young, and the Active; Reticulocytes; Quality Control of Automated Cell Counters; Digital Image Analysis of Blood Cells; Blood Cell Counters in Urgent Care Settings; Novel Parameters in Blood Cell Counters; and the Development and Future of Automated Blood Cell Counters.

Feline Practice: Integrating Medicine and Well-Being (Part I), An Issue of Veterinary Clinics of North America: Small Animal Practice, E-Book Blood Cells

Textbook explores key aspects of hematology from normal hematopoiesis through diseases of erythroid, myeloid, lymphoid, and megakaryocytic origin. Includes a revised section on hemostasis and thrombosis. Case studies and chapter summaries are included.

Phagocytes—Advances in Research and Application: 2012 Edition John Wiley & Sons

SCHALM ’ S VETERINARY HEMATOLOGY An updated guide to veterinary hematology with expanded coverage on a variety of topics The revised seventh edition of Schalm ’ s Veterinary Hematology is updated to provide a comprehensive review of all topics related to disorders of the blood in animals. Designed as a gold-standard reference, this text covers a wide range of species in both confined and free-range populations, reflects the most recent trends in hematology diagnostics, and discusses recent advances in traditional techniques. Edited and written by an international team of experts in the field, the book represents an accessible yet in-depth resource for information on veterinary hematology. The new edition includes a hemolymphatic tissue section that covers current understanding of basic science and the species-specific hematology section is further expanded from previous editions. New chapters address emerging topics in hematology, and existing chapters have been revised and rearranged to improve readability and simplify access to the material. This seventh edition: Updates the most complete reference on veterinary hematology across species Contains a new section on basic biology of hemolymphatic tissues Expands coverage of species-specific hematology Presents new and emerging topics in blood disorders and diagnostic techniques Features a reorganized contents list for an integrated, easy to use reference Written for veterinary clinical pathologists and residents, diagnostic laboratory staff, internists, and specialists, Schalm ’ s Veterinary Hematology is the most comprehensive and up-to-date reference on the topic.

Rodak’s Hematology - E-Book Fulton Books, Inc. For many years, we have noticed the lack of a concise, yet comprehensive, "question-and-answer style" book that thoroughly covers hematology, hematolymphoid neoplasms, and coagulation disorders and renders them in an easy and digestible manner to the busy hematopathologists and fellows in training. There are many excellent textbooks written by experts in the field, which are indispensable. However, and for sake of board exam cramming, these may not be the preferred source for studying. Most of the available hematology question books are case series-based, and the authors refrain from following or maintaining a board-exam style. Our Hematopathology Q Bank: Board-Style Review will be the first Q bank in the field that comprehensively covers adult and pediatric disorders in hematology, hematopathology, and coagulation subspecialties. The book falls in eleven chapters and includes 380 written questions (without images), 230 question with high-resolution images, nearly 100 short case series and case studies, and 40 tables, charts, and algorisms. The contents cover both benign (reactive) and neoplastic conditions in hematopoietic and lymphoid systems, hematology-related cytology and FNA challenging cases, flow cytometry, cytogenetics, and molecular genetics. This is in addition to coagulation disorders and some laboratory management. The bank is full of interpretation rules and differential diagnosis tables and fact sheets for easy board cramming. Materials have been derived from up-to-date textbooks including the revised fourth edition of WHO classification of hematopoietic and lymphoid tumors, articles, and real-time cases encountered in the laboratory. It is our sincere hope that this hematopathology review book fills a gap in field, and that hematopathology fellows in training and attending clinical pathologists find it a wealth of up-to-date information presented in an easy way. We hope they find this "Q bank" of utmost benefit in preparing for exams including both clinical pathology and hematopathology-subspecialty exams.

Wintrobe’s Clinical Hematology Amer Society of Clinical Pathology

Durante más de 65 años, este éxito de ventas de los doctores Barbara Bain, Imelda Bates y Mike A. Laffan, ha sido la referencia en todo el mundo en hematología de laboratorio.

Internacionalmente reconocida como la obra de referencia para los laboratorios de hematología, este manual práctico describe todas las técnicas utilizadas en la investigación de los pacientes con enfermedades sanguíneas. Analiza los principios de cada prueba, las causas posibles de error, el razonamiento para elegir un método u otro y la interpretación, significado e importancia clínica de los resultados. Aborda las últimas tecnologías y procedimientos en el trabajo de laboratorio. Incluye nueva información sobre seguridad en el laboratorio, proporcionando una guía sobre los riesgos de cada procedimiento. Hace hincapié en los detalles técnicos de los métodos, junto con una perspectiva crítica sobre su interpretación y utilidad clínica. Ofrece directrices útiles a todos los niveles, desde los centros primarios de salud, donde solo se realizan unas pocas pruebas diagnósticas, hasta centros especializados con tecnología sofisticada. Proporciona árboles de decisión que ayudan a enfrentarse a diversas situaciones clínicas desde el punto de vista de los análisis de laboratorio. Incluye capítulos sobre organización, dirección y control de calidad del laboratorio. Dispone de contenido adicional en ExpertConsult que permite búsquedas en todo el texto y referencias en una gran variedad de dispositivos.

Current Therapy in Avian Medicine and Surgery Elsevier Health Sciences

Featuring hundreds of full-color photomicrographs, Rodak ’ s Hematology: Clinical Principles and Applications, 5th Edition prepares you for a job in the clinical lab by exploring the essential aspects of hematology. It shows how to accurately identify cells, simplifies hemostasis and thrombosis concepts, and covers normal hematopoiesis through diseases of erythroid, myeloid, lymphoid, and megakaryocytic origins. This text also makes it easy to understand complementary testing areas such as flow cytometry, cytogenetics, and molecular diagnostics. Clinical lab experts Elaine Keohane, Larry Smith, and Jeanine Walenga also cover key topics such as working in a hematology lab, the parts and functions of the cell, and laboratory testing of blood cells and body fluid cells. Instructions for lab procedures include sources of possible errors along with comments. Case studies in each chapter provide opportunities to apply hematology concepts to real-life scenarios. Hematology instruments are described, compared, and contrasted. UPDATED, full-color illustrations make it easier to visualize hematology concepts and show what you ’ ll encounter in the lab, with images appearing near their mentions in the text so you don ’ t have to flip pages back and forth. Hematology/hemostasis reference ranges are listed on the inside front and back covers for quick reference. A bulleted summary makes it easy 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 coverage of hematogones in the chapter on pediatric and geriatric hematology helps you identify these cells, a skill that is useful in diagnosing some pediatric leukemias. UPDATED chapter on molecular diagnostics covers new technology and techniques used in the lab.

Veterinary Laboratory Medicine John Wiley & Sons Basic principles of hematology made memorable. Build a solid understanding of hematology in the context of practical laboratory practice and principles. Visual language, innovative case studies, role-playing troubleshooting cases, and laboratory protocols bring laboratory practice to life. Superbly organized, this reader-friendly text breaks a complex subject into easy-to-follow, manageable sections. Begin with the basic principles of hematology; discover red and white blood cell disorders; journey through hemostasis and disorders of coagulation; and then explore the procedures needed in the laboratory.

Dacie and Lewis Practical Haematology E-Book Elsevier Mit einem sinnvollen Screening die richtigen Weichen stellen Auch die 7. Auflage dieses bewährten Standardwerkes bleibt dem bestehenden Konzept treu: Ein allgemeiner Teil informiert detailliert und übersichtlich über die wichtigsten Aspekte zur Labortechnik, Wirtschaftlichkeit, Qualitätskontrolle und Bewertung von Laborbefunden. Umfangreich bebilderte Kapitel beschreiben die wichtigsten und aktuellen labordiagnostischen Bestimmungsmethoden, aufgeschlüsselt nach Organ- und Stoffwechselsystemen. Auch die Ausführungen zur tierartspezifischen Labordiagnostik bieten einen schnellen Überblick, immer kombiniert mit dem notwendigen wissenschaftlichen Hintergrund. Ein einheitlicher Aufbau erleichtert dem Praktiker das gezielte Navigieren von der Indikation über Material, Prinzip, Technik, Referenzbereiche und Bewertung bis hin zur Diagnose. Alle Kapitel wurden von renommierten Experten komplett überarbeitet, erweitert und aktualisiert. Besonders übersichtlich: eine Zusammenfassung aller relevanten Referenzbereiche – alphabetisch gelistet und jederzeit griffbereit. Unbedingt empfehlenswert für jeden Tierarzt in Praxis, Klinik und Labor sowie Studenten der Tiermedizin. Keywords: Labortechniken, Laborbefunde, Organprofile, Funktionsprofile, Hämatologie, Hämostase, Zytologie, Endokrinologie, Säuren-Basen-Haushalt, Elektrolyte, Enzyme, Mineralstoffwechsel, Parasitologie, Wiederkäuer, Schwein, Pferd, Meerschweinchen, Kanninchen, Chinchilla, Frettchen, Vögel, Reptilien, Fische, Amphibien

Hematology and Coagulation Elsevier Health Sciences Biomarkers in Toxicology is a timely and comprehensive reference dedicated to all aspects of biomarkers that relate to chemical exposure and their effects on biological systems. This book includes both vertebrate and non-vertebrate species models for toxicological testing and development of biomarkers. Divided into several key sections, this reference volume contains chapters devoted to topics in molecular-cellular toxicology, as well as a look at the latest cutting-edge technologies used to detect biomarkers of exposure and effects. Each chapter also contains several references to the current literature and important resources for further reading. Given this comprehensive treatment, Biomarkers in Toxicology is an essential reference for all those interested in biomarkers across several scientific and biomedical fields. Written by international experts who have evaluated the expansive literature to provide you with one resource covering all aspects of toxicology biomarkers Identifies and discusses the most sensitive, accurate, unique and validated biomarkers used as indicators of exposure and effect of chemicals of different classes Covers special topics and applications of biomarkers, including chapters on molecular toxicology biomarkers, biomarker analysis for nanotoxicology, development of biomarkers for drug efficacy evaluation and much more Hematology, An Issue of Veterinary Clinics: Small Animal Practice - E-Book Elsevier Health Sciences

Long-trusted in the field, Cowell & Tyler ’ s Diagnostic Cytology and Hematology of the Dog and Cat, 5th Edition is the complete resource for helping you learn the necessary skills to diagnosis and treat dogs and cats. This essential clinical reference includes detailed illustrations to help you quickly and accurately build a treatment plan for hundreds of medical diagnoses. Microscopic evaluation techniques and interpretation guidelines for organ tissue, blood, and other body fluid specimens provide a basic understanding of sample collection and specimen preparation. In addition, algorithms are generously distributed throughout the text, helping you evaluate various cytologic preparations. Written by a team of experts, this fifth edition includes over 150 new, high-resolution photomicrographs and histopathology images, and a new chapter covering the Female Reproductive Tract. Additionally, an Expert Consult website features the entire text plus an electronic atlas with more than 1,000 full-color photomicrographs depicting abnormalities within each blood cell line! UPDATED! Revised chapters throughout the text give you the most complete and up-to-date coverage of recently recognized conditions, new terminology, and new procedures. Coverage of the basics of specimen collection, preparation, microscopic evaluation, and interpretation for organ tissues, blood, and other body fluids saves you time by having comprehensive information in one all-inclusive resource. Detailed instructions for submission and transport of samples as well as culture and commercial laboratory interpretation guide you through in-house laboratory evaluation. User-friendly, easy-to-follow algorithms and tables facilitate quick access to necessary information and guide you to the most accurate cytologic diagnosis. Over 1,300 vivid, high-resolution images let users zoom in to help identify normal vs. abnormal cells, enabling you to make accurate diagnoses. Contributions from nearly 50 academic and diagnostic laboratory experts provide you with the best and most current information available. NEW and UNIQUE! Expert Consult website has entire text plus an electronic atlas including the Zoomify feature which allows you to zoom in and out of more than 1,000 full-color photomicrographs depicting abnormalities within each blood cell line. NEW! Female Reproductive Tract chapter provides updated coverage of vaginal cytology and includes all-new information on uterine and ovarian aspirates. NEW! More than 150 high-resolution photomicrographs and histopathology images help you identify normal vs. abnormal cells, tissues, and lesions. NEW! Enhanced section on urinalysis with all-new images helps you to identify various types of crystals in urine sediment.