Application Of Immunohistochemistry In Undifferentiated

Handbook of Practical ImmunohistochemistryFrequently Asked QuestionsSpringer

This book offers a thorough overview of many diagnostic tools used in immunohistochemistry, supplemented with more than 600 color photomicrographs.

Here's your ideal reference on the diagnosis of tumors of the skeletal muscles, connective tissue, fat, and related structures. No other textbook matches its scope and depth of coverage in this complex and challenging area of surgical pathology, and no other text contains as much practical information on differential diagnosis. Throughout, microscopic findings are correlated with the latest developments in molecular biology, cytogenetics, and immunohistochemistry to provide you with a comprehensive and integrated approach to evaluation and diagnosis. Almost 2,000 superb illustrations capture the appearance of a complete range of entities and help relate these to their specific classifications. The result is an essential resource for all who diagnose and treat soft tissue tumors. Get all the assistance you need, in one reference, to effectively diagnose these often complex and challenging entities. Confirm your diagnostic suspicions by comparing your findings to nearly 2,000 full-color, high-quality illustrations representing the complete range of soft tissue tumors. Access all of the essential clinical and prognostic data necessary to formulate complete sign-out reports. Make optimal use of relevant ancillary techniques such as immunohistochemistry and cytogenetics. Make rapid and effective decisions with the aid of extensive algorithms, and access information at a glance with abundant tables and graphs. Solve difficult diagnostic dilemmas and avoid pitfalls with a special emphasis on overcoming these challenges. Find answers quickly thanks to a new color-coded page design as well as a consistent approach to every entity. Download all of the illustrations from the book for use in electronic presentations with the new bonus CD-ROM. Apply the latest knowledge on FNA biopsy, molecular biology, and cytogenetics. Understand complex molecular events more fully thanks to new conceptual line drawings. Easily distinguish between entities that have a similar appearance with the assistance of new tables that correlate histologic, immunohistochemical, and molecular biologic findings. Navigate through the book quickly thanks to new summary outlines at the beginning of each chapter.

Enzinger and Weiss's Soft Tissue Tumors is your essential medical reference on the diagnosis of tumors of the skeletal muscles, connective tissue, fat, and related structures. No other source matches Enzinger and Weiss's scope and depth of coverage in this complex and challenging area of surgical pathology, and no other text contains as much practical information on differential diagnosis. Microscopic findings are correlated with the latest developments in molecular biology, cytogenetics, and immunohistochemistry, providing you with a comprehensive and integrated approach to the evaluation of soft tissue specimens. Consult this title on your favorite e-reader, conduct rapid searches, and adjust font sizes for optimal readability. Compare what you see under the microscope to nearly 2,000 superb images that capture the appearance of a complete range of pathological entities and help you relate their characteristics to their specific classifications. Apply the latest knowledge on FNA biopsy, molecular biology, and cytogenetics. Make rapid and effective decisions with the aid of extensive algorithms, and access information at a glance with abundant tables and graphs. Take advantage of all of the essential clinical and prognostic data on soft tissue tumors that are necessary to formulate complete sign-out reports. Navigate through the book quickly thanks to summary outlines at the beginning of each chapter, a color-coded page design, and a consistent approach to every entity. Apply the latest advances in surgical pathology thanks to major updates on recently identified pathological entities such as soft tissue angiofibroma and CIC-related sarcomas; coverage of the newest molecular diagnostic techniques and immunohistochemical and molecular genetic features of soft tissue tumors; new chapters on GIST and soft tissue tumors showing melanocytic differentiation; and more. Effortlessly find the information you need with a chapter organization based on the newest surgical pathology concepts and classifications of soft tissue tumors.

Leong's Manual of Diagnostic Antibodies for Immunohistology

Bone Tumors in Domestic Animals

Ear, Nose and Throat Histopathology

Pathology of the Ovary, Fallopian Tube and Peritoneum

Theranostic and Genomic Applications

Advances in Spermatozoa Research and Application / 2012 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Spermatozoa. The editors have built Advances in Spermatozoa Research and Application / 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Spermatozoa in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Advances in Spermatozoa Research and Application / 2012 Edition has been produced by the world ' s leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.

Immunohistochemistry (IHC) is an ancillary method, widely used in pathologists ' practice, that allows identifying diagnostic and prognostic/predictive of therapeutic response protein markers on tissue samples by the use of specific monoclonal antibodies and chromogenic substances that guarantee the visualization of an antibody-antigene binding complex under a light microscope [1]. Coon et al., in 1941 [2], first introduced the use of fluorochrome-conjugated antibodies in clinical practice. Since then, IHC has gone from being a useful tool for identifying the differentiation line of otherwise undifferentiated cells to a technique capable of providing not only diagnostic but also prognostic and predictive indications of responses to specific therapeutic options [1,3]. The abovementioned peculiarities have made IHC one of the most used ancillary methods in the histopathological approach to human neoplastic and non-neoplastic diseases [3-5]. This Special Issue contains 11 accepted papers that provide readers with a comprehensive update on current and future applications of IHC in medical practice.

This book focusing on the immunopathology of cancers is published as part of the three-volume Springer series Cancer Immunology, which aims to provide an up-to-date, clinically relevant review of cancer immunology and immunotherapy. Readers will find detailed descriptions of the interactions between cancerous cells and various components of the innate and adaptive immune system. The principal focus, however, is very much on clinical aspects, the aim being to educate clinicians in the clinical implications of the latest research and novel developments in the field. In the new edition of this very well received book, first published in 2015, the original chapters have been significantly updated and additional chapters included on, for example, current knowledge on the roles of T-helper cells and NK cells in tumor immunity, the part played by oncoviruses in the development of various cancers, and the applications of fluorescent in situ hybridization, bioluminescence, and cancer molecular and functional imaging. Cancer Immunology: A Translational Medicine Context will be of special value to clinical immunologists, hematologists, and oncologists.

Presents the elements of immunohistochemistry in the context of the "total test". It deals logically with issues of test selection, reagent selection and quantification, protocols and methods, controls, results, interpretation, in situ hybridization, reporting, and significance. In each chapter, readers will find infectious diseases and prognostic markers and a molecular morphology perspective, focusing on DNA, RNA, and protein. Integrates infectious diseases and prognostic markers into each chapter, offering complete diagnostic coverage of any given organ system.

Immunohistochemistry in Diagnostic Dermatopathology

Cell and Molecular Biology Techniques

Diagnostic Immunohistochemistry

Immunocytochemistry in Diagnostic Cytology

PET/CT in Cancer of Unknown Primary

Part of the in-depth and practical Pattern Recognition series, Practical Surgical Soft Tissue Pathology, 2nd Edition, helps you arrive at an accurate diagnosis by using a proven pattern-based approach. Leading diagnosticians guide you through the most common patterns seen in soft tissue pathology, applying appropriate immunohistochemistry and molecular testing, avoiding pitfalls, and making the best diagnosis. High-quality illustrations capture key morphologic patterns for a full range of common and rare tumor types, and a "visual index" at the beginning of the book directs you to the exact location of in-depth diagnostic guidance. A consistent chapter organization by histologic pattern considers soft tissue tumors the way you approach them in daily practice, helping you arrive at a quick and accurate diagnosis. A user-friendly design color-codes patterns to specific entities, and key points are summarized in tables and text boxes, so you can quickly and easily find what you are looking for. Sweeping content updates keep you at the forefront of recent findings regarding all major neoplastic and non-neoplastic diseases of the soft tissues. Improved pattern call-outs are now linked directly within the chapter, reinforcing the patterns for more efficient and complete understanding.

"Diagnostic Pathology: Soft Tissue Tumors, Second Edition strives to reflect the incredible amount of new information that has been uncovered in the field of soft tissue pathology over the last half decade, including changes in terminology and classification (per the latest 2013 World Health Organization Consensus Classification). The new edition includes new chapters and sections that detail both recently described true soft tissue entities/variants as well as mesenchymal tumors that occur outside of standard somatic soft tissue locations (e.g., viscera, gastrointestinal tract), and even those nonmesenchymal tumors and proliferations that often find themselves in the differential considerations of true soft tissue tumors. Additionally, chapters that discuss immunohistochemistry and molecular genetics as they pertain to soft tissue pathology have been remodeled to reflect the stunning proliferation of new antibodies and molecular signatures that seems to expand exponentially month by month. Perhaps most notably, the vast majority of histologic images herein are completely new and unique to the second edition. In addition, the photogalleries in a large number of existing chapters have been expanded to include both salient microscopic features as well as less common and even rare variant morphologies in an effort to more thoroughly photodocument the rich morphologic spectrum of soft tissue pathology."--Provided by publisher.

Cardiac tumors were once a nosographic entity of scarce clinical interest because of the rarity and of the intrinsic diagnostic and therapeutic impossibilities, and were considered a fatal morbid entity. It has now become a topical subject due to advances in clinical imaging (echo, magnetic resonance, computed tomography) as well as innovation in technologies of in-vivo diagnosis. Cardiac Tumor Pathology presents a spectacular example of these advances with clinico-pathologic correlations. This timely volume covers history, epidemiology, demographics, clinical diagnosis, pathology, imaging by echo, CT and MRI of both benign and malignant cardiac tumors, either primary or secondary. Chemotherapy of malignant neoplasms is also addressed. Special emphasis is given to clinico-pathologic correlations. With all chapters written by experts in their fields, this volume will serve as a useful resource for physicians dealing with, and interested in, this special branch of cardiac oncology and will represent a useful guide for pathologists, clinicians, cardiologists, cardiac surgeons, and radiologists as well as for postgraduate students training in these areas.

This comprehensive, multidisciplinary text addresses all aspects of head and neck cancer and represents a wide spectrum of specialists, including surgical, radiation, and medical oncologists, dentists, pathologists, radiologists, and nurses. The book focuses on a two-part approach to treatment that maximizes the chance for a cure while maintaining a strong emphasis on quality of life. This Third Edition's updated techniques section includes new radiation techniques such as IMRT and IGRT and new endoscopic and laser surgical techniques. Other highlights include a new chapter on reconstructive techniques; significant updates to all site-specific chapters; updates on chemoprevention and molecular targeting; and discussions of new imaging modalities such as fused PET/CT. A companion Website will offer the fully searchable text with all images.

Handbook of Practical Immunohistochemistry

A Diagnostic Tool for the Surgical Pathologist

An Atlas for Diagnostic Pathology

Diagnostic Tips and Traps

Biomarkers in Carcinoma of Unknown Primary

Describes the use of immunohistochemistry and electron microscopy in the diagnosis of undifferentiated tumors.

Mohs Micrographic Surgery, an advanced treatment procedure for skin cancer, offers the highest potential for recovery—even if the skin cancer has been previously treated. This procedure is a state-of-the-art treatment in which the physician serves as surgeon, pathologist, and reconstructive surgeon. It relies on the accuracy of a microscope to trace and ensure removal of skin cancer down to its roots. This procedure allows dermatologists trained in Mohs Surgery to see beyond the visible disease and to precisely identify and remove the entire tumor, leaving healthy tissue unharmed. This procedure is most often used in treating two of the most common forms of skin cancer: basal cell carcinoma and squamous cell carcinoma. The cure rate for Mohs Micrographic Surgery is the highest of all treatments for skin cancer—up to 99 percent even if other forms of treatment have failed. This procedure, the most exact and precise method of tumor removal, minimizes the chance of regrowth and lessens the potential for scarring or disfigurement

This second edition has been expanded and revised by Leslie Michaels in conjunction with the new co-author Henrik B. Hellquist. It now covers the advances that have taken place in the field since 1987. As a standard work in the field ENT histopathology, this second edition now includes sections on the salivary glands, lesions in the neck, and advances in molecular pathology. The content reflects the massive growth in molecular pathology that has taken place in all branches of histopathology.

This book offers a comprehensive yet concise overview of immunoprofile of tumors and antibodies used in contemporary surgical pathology, and provides diagnostic algorithms for approaching tumor diagnostics. Immunohistochemistry has become the most important ancillary technique in diagnostic pathology in the last 20 years, and unlike most books on tumor diagnostics, this volume discusses in details immunohistochemical biomarkers, diagnostic approaches and their pitfalls, as well as the immunoprofile of common tumors throughout all systems of human body. With numerous color figures and detailed flowcharts, it appeals to all pathologists be they young residents in training who want a brief introduction to this technique, or specialists in need of a reliable and comprehensive reference resource in tumors diagnostics.

Frequently Asked Questions

Archives of Pathology & Laboratory Medicine

Who Classification of Tumours of the Lung, Pleura, Thymus and Heart

Monoclonal Antibodies

Practical Soft Tissue Pathology: A Diagnostic Approach E-Book

This pocket book offers a rapid and concise overview of the utility of PET/CT in the management of patients with cancer of unknown primary (CUP). Readers will gain an appreciation of the unique information provided by PET/CT on the molecular and metabolic changes associated with CUP, which can occur in the absence of corresponding anatomical alterations. Characteristic imaging appearances are documented with the aid of a series of teaching cases that serve to illustrate the potential improvements in patient management that may be achieved through early use of PET/CT in the diagnostic pathway. In addition, the relation of the clinical and pathological background to imaging is explained. The book is published within the Springer series Clinicians' Guides to Radionuclide Hybrid Imaging (compiled under the auspices of the British Nuclear Medicine Society) and will be an excellent asset for all clinicians, nuclear medicine physicians, radiologists, radiographers, and nurses who routinely work in multidisciplinary teams involved in the management of these patients.

This richly illustrated book will help presurgically diagnose pediatric/young adult tumors. The content is divided into two parts. The first part shows step-by-step how to perform a small volume specimen such as fine needle aspiration/core needle biopsy and how to correlate the morphology with the clinical, radiological, and/or molecular information. In turn, the second part presents a comprehensive overview of the various tumor entities. The content represents diagnostic modalities from the major diagnostic centers worldwide, and is supplemented by the authors` 25 years of experience in diagnosing pediatric tumors. This book will successfully guide practitioners, researchers and oncology pediatricians through the process of sample harvesting and diagnosing. Pediatric tumors represent a large variety of lesions including pseudotumors of inflammatory and non-inflammatory origin, various types of lymphadenopathy, benign lesions, specific sarcomas, and blastemal malignancies. These age-specific and histotype-specific tumors of various origin, evolution and prognosis are often characteristic in morphological and molecular levels, making their diagnosis highly specialized.

Color Atlas of Pulmonary Cytopathology is the only text to include, under one cover, up-to-date information on every aspect of Respiratory Cytopathology. The atlas includes techniques of bronchoscopy, brochoalveolar lavage, and fine needle aspiration biopsy, a detailed section on cytopreparatory techniques, liberal use of images on histomorphology to complement cytology, emphasis on diagnostic pitfalls, a detailed section on cytopathology of non-neoplastic conditions, and much more. Abundantly illustrated with over 1300 color images, the atlas presents not only the usual cytohistologic patterns of various disease entities, but also focuses on differential diagnostic problems and depicts the differentiating features.

This new reference examines specimen processing of effusion fluids, detailing the steps needed to obtain more accurate diagnoses while avoiding common pitfalls. A methodical, algorithmic approach to the evaluation and interpretation of specimens enables you to establish a definitive diagnosis in these often difficult cases. User-friendly features - combined with extensive tables and algorithms - facilitate ease of interpretation, and highlighted information makes the most essential concepts easy to reference quickly. Avoid potential errors in diagnosis with a full chapter that offers expert approaches to specimen collection and processing. Arrive at more accurate diagnoses with the aid of step-by-step algorithms plus hundreds of illustrations - including multiple images for each phenomenon representing a broad range of stains and magnifications. Achieve optimal diagnostic certainty by viewing correlations between Pap, Diff-Quick (Romanowsky), and immunocytochemical stain for every type of serous effusion. Recognize the difference in cell samples yielded after washing the serous cavity with saline or balanced salt solution versus effusion fluid. Understand the advantages and disadvantages of Pap stains versus Diff-Quick stains in FNA evaluations. Remain up to date with the latest technologies such as liquid based cytology (SurePathTM) and ThinPrepTM. Easily apply principles to real-life practice by reviewing detailed histories. Quickly locate the guidance you need with a color-coded chapter system. Focus on the most important points with user-friendly highlighted boxes.

Small Volume Biopsy in Pediatric Tumors

Immunohistology and Electron Microscopy of Anaplastic and Pleomorphic Tumors

Immunomicroscopy

Color Atlas of Pulmonary Cytopathology

Cardiac Tumor Pathology

Monoclonal antibodies have a very important and wide-ranging role in many areas of biomedical research and this volume is amongst the very first to combine technical and clinical aspects of the subject.

In a conceptually current, quick-reference, Question & Answer format, the second edition of Handbook of Practical Immunohistochemistry: Frequently Asked Questions continues to provide a comprehensive and yet concise state-of-the-art overview of the major issues specific to the field of immunohistochemistry. With links to the authors Immunohistochemical Laboratory website, this volume creates a current and up-to-date information system on immunohistochemistry. This includes access to tissue microarrays (TMA) of over 10,000 tumors and normal tissue to validate common diagnostic panels and provide the best reproducible data for diagnostic purposes. Fully revised and updated from the first edition, the new features of the second edition include over 200 additional questions or revised questions with an IHC panel to answer each question; over 250 new color photos and illustrations; over 20 new useful biomarkers; hundreds of new references; several new chapters to cover phosphoproteins, rabbit monoclonal antibodies, multiplex IHC stains, overview of predictive biomarkers, and integration of IHC into molecular pathology; many new coauthors who are international experts in a related field; many updated IHC panels using Geisinger IHC data collected from over 10,000 tumors and normal tissues; and updated appendices containing detailed antibody information for both manual and automated staining procedures. Comprehensive yet practical and concise, the Handbook of Practical Immunohistochemistry: Frequently Asked Questions, Second Edition will be of great value for surgical pathologists, pathology residents and fellows, cytopathologists, and cytotechnologists.

This book aims to examine all immunohistochemical and molecular pathological biomarkers that can be useful and effective in patient diagnosis, prognosis and treatment decision, especially when faced with a carcinoma of unknown primary. For this purpose, epithelial malignancies of all systems and related biomarkers are examined one by one, and to look at the subject through the metastatic regions window, biomarkers that can be used to determine the primary focus for carcinomas seen in the areas most frequently metastasized are emphasized. With this bi-directional perspective, the reader is able to find biomarkers of any type of carcinoma on a system basis, as well as access to which biomarkers can be used when faced with a metastatic carcinoma. The importance of biomarkers in patient follow-up and treatment is also conveyed through the clinician's eye, and so biomarkers are handled with a holistic approach in all aspects. This book primarily targets pathologists, as well as clinicians (oncologists and surgeons) who manage cancer patients.

Diagnostic Immunohistochemistry presents the latest information and most reliable guidance on immunohistological diagnoses in surgical pathology. David J. Dabbs, MD and other leading experts bring you state-of-the-art coverage on genomic and theranostic applications, molecular anatomic pathology, immunocytology, Non-Hodgkin's lymphoma, and more. Additional features such as tables discussing antibody specifications, differential diagnosis boxes, ancillary anatomic molecular diagnostics, and full-color histological images ensure user-friendly coverage that makes key information easy to find and apply. This concise and complete resource is today's indispensable guide to the effective use of immunohistochemical diagnosis. Discusses diagnostic pitfalls through immunohistologic differential diagnosis wherever appropriate so you can provide the most accurate diagnoses. Presents chapters arranged by organ system for comprehensive coverage of all relevant information in a convenient and intuitive organization. Provides quick reference graphs for antibodies throughout the text that illustrate the frequency of immunostaining for a variety of antibodies in tumors. Includes Key Diagnostic Points boxes in every chapter for a quick summary of text areas that are of particular importance. Features an expert author for each chapter to ensure coverage of the current state of the art.

A Volume in the Pattern Recognition Series

Tumors in Domestic Animals

Enzinger and Weiss's Soft Tissue Tumors

Tumors of the Liver and Intrahepatic Bile Ducts

WHO Classification of Tumours of the Lung, Pleura, Thymus and Heart is the seventh volume in the Fourth Edition of the WHO series on histological and genetic typing of human tumors. This authoritative, concise reference book provides an international standard for oncologists and pathologists and will serve as an indispensable guide for use in the design of studies monitoring response to therapy and clinical outcome.

One of only a few textbooks on the market dedicated to the important role of immunohistochemistry in diagnostic dermatopathology.

Fully updated to reflect the latest developments in the field, this best-selling practical guide offers concise text, summary tables and high-quality images. An essential text for residents, this is also an extremely valuable resource for practitioners in anatomic pathology wishing to familiarise themselves with diagnostic markers at a quick glance.

A detailed, A-Z guide and an indispensable source for pathologists ensuring correct application of immunohistochemistry in daily practice.

Diagnostic Pathology: Soft Tissue Tumors

Head and Neck Cancer

Cancer Immunology

Morphology Methods

Modern Immunohistochemistry with DVD-ROM

This book focuses primarily on the most efficient way to make an accurate FNA diagnosis of metastatic tumors within the broad confines of cytopathology. The text provides a step-by-step “thought process” during the diagnostic approach of the metastatic tumors using detailed algorithms. Starting from the onsite immediate FNA sample assessment, the book provides strategy of specimen triage to facilitate further cytology evaluation based on the metastatic patterns and morphologic patterns of the tumors. In the subsequent chapter, the book provides tips and traps of selecting markers and interpretation of immunoperoxidase, flow cytometric, cytogenetic and molecular studies. The book includes the strategy of dealing with limited FNA material and wisely use existing samples (cell block, direct smear, cytospin) for different ancillary studies including molecular tests that have been used at MD Anderson. The author highlights challenging issues to show the importance of using a multidisciplinary (clinical, radiologic, cytologic and ancillary studies) approach. Extensive illustrations are provided. Metastatic Neoplasms in Fine-Needle Aspiration Cytology will provide pathology residents, fellows, practicing cytopathologists and cytotechnologists with a practical way to approach metastatic malignancies in daily cytology practice as well as provide a vision of the future of cytopathology.

Knowledge in the field of urologic pathology is growing at an explosive pace. Today’s pathologists, specialists, and residents require a comprehensive and authoritative text that examines the full range of urological diseases and their diagnosis. Written by recognized leaders and educators in the field, the text provides readers with a detailed understanding of all diagnostic aspects of urological disease. Inside this unique resource, readers will explore a broad spectrum of practical information—including etiology, diagnostic criteria, molecular markers, differential diagnosis, ancillary tests, and clinical management. This is sure to be the new definitive text for urological pathology!

Cytology refers to a branch of pathology that deals with making diagnoses of diseases and conditions through the examination of tissue samples from the body (MedicineNet.com). Immunocytochemistry is a laboratory method that uses antibodies to check for certain antigens (markers) in a sample of cells. The antibodies are usually linked to an enzyme or a fluorescent dye. After the antibodies bind to the antigen in the cell sample, the enzyme or dye is activated, and the antigen can then be seen under a microscope. Immunocytochemistry is used to help diagnose diseases, such as cancer. It may also be used to help tell the difference between different types of cancer (National Cancer Institute). This book is a comprehensive guide to the techniques and application of immunocytochemistry in cytology. Divided into two parts, the first section discusses basic principles and preparation, techniques and quality control, and automated immune staining. Section Two covers diagnostic applications of immunocytochemistry for many different types of tumour. The text is highly illustrated with microphotographs, tables and boxes to assist learning and interpretation of findings for accurate diagnosis. Key points Comprehensive guide to techniques and application of immunocytochemistry in cytology Provides thorough understanding of basic principles and methods Covers diagnostic applications for many different types of tumour Highly illustrated with microphotographs, tables and boxes

This book provides a comprehensive description of the pathology of the head and neck region, concentrating especially on those pathologic entities that are unique to or characteristic of the head and neck. The new edition retains the ten chapters of the first edition, all updated and improved, and additionally contains seven entirely new chapters and a more detailed subject index. The number of illustrations has been substantially increased, and various lesions absent in the original edition have been included. Throughout, attention is paid to correlation of pathology with epidemiology, clinical features, pathogenesis, and molecular genetics. Differential diagnosis is addressed, and information is also provided on staging, prognosis, and therapy. The authors include foremost experts in the field, some of whom are senior members of the Working Group on Head and Neck Pathology of the European Society of Pathology.

Immunohistochemistry in Tumor Diagnostics

Metastatic Neoplasms in Fine-Needle Aspiration Cytology

Modern Immunohistochemistry

Pathology of the Head and Neck

Cytopathologic Diagnosis of Serous Fluids E-Book

As the second volume in the Essentials of Diagnostic Gynecological Pathology series sponsored by the British Association of Gynecological Pathologists, Pathology of the Ovary, Fallopian Tube and Peritoneum is one of the very few dealing wholly with this subject. Pathology of the Ovary, Fallopian Tube and Peritoneum introduces the topic with a discussion of the anatomy, development, histology and normal function of the ovary, followed by chapters on non-neoplastic disorders of the ovary; surgery and medical management of ovarian cancer; and the use of imaging, frozen sections and cytology in ovarian pathology. The book then goes on to describe specific disorders of the ovary, fallopian tube and peritoneum in detail, and finishes with a chapter on specimen cut-up. Pathology of the Ovary, Fallopian Tube and Peritoneum has been written to be useful diagnostically to general as well as specialist gynecological histopathologists and pathologists in training. Gynecologists, oncologists, genitourinary physicians and cancer nurse specialists will find expert insights here that will help in treatment and counselling of their patients.

This book describes in detail the use of immunohistochemistry and electron microscopy in the examination and study of a wide range of undifferentiated tumors. Such tumors are described with clinical case examples and the plentiful illustrations serve as a guide to recognition and diagnosis. The organization of the book reflects the diagnostic process, with algorithms and diagnostic panels of antibodies to help the pathologist elucidate the nature of the neoplasm. Coverage ranges from basic aspects of immunohistochemistry and diagnostic electron microscopy to new ways of predicting tumor behavior and prognosis, and the use of RNA and DNA probes. Written by internationally recognized experts.

User-friendly and concise, the new edition of this popular reference is your #1 guide for the appropriate use of immunohistochemical stains. Dr. David J. Dabbs and leading experts in the field use a consistent, organ system approach to cover all aspects of the field, with an emphasis on the role of genomics in diagnosis and theranostic applications that will better inform treatment options. Each well-written and well-researched chapter is enhanced with diagnostic algorithms, charts, tables, and superb, full-color histologic images, making this text a practical daily resource for all surgical pathologists. Features a systematic approach to the diagnostic entities of each organ system, including detailed differential diagnoses, diagnostic algorithms, and immunohistograms that depict immunostaining patterns of tumors. Covers many more antigens than other texts, and discusses antibody specifications with tables that convey information on uses, clones, vendors, sources, antibody titers, and types of antigen retrieval. Discusses diagnostic pitfalls through immunohistologic differential diagnosis wherever appropriate so you can provide the most accurate diagnoses. Contains new material on non-lymphoid malignancies, Hodgkin/non-Hodgkin lymphoma, and an expanded chapter on digital imaging and quantitative immunohistochemistry. Provides new grading schemes for several organs, along with new antibodies to cover more genomic immunohistochemistry applications. Offers more emphasis in the breast section of "eyes on" tissue for molecular/IHC prognostics compared to the current trend of gene-expression profiling of breast cancer. Expert ConsultT eBook version included with purchase. This enhanced eBook experience allows you to search all of the text, figures, and references from the book on a variety of devices.

The past several decades have witnessed an impressive array of conceptual and techno logical advances in the biomedical sciences. Much of the progress in this area has developed directly as a result of new morphology-based methods that have permitted the assessment of chemical, enzymatic, immunological, and molecular parameters at the cellular and tissue levels. Additional novel approaches including laser capture microdissection have also emerged for the acquisition of homogeneous cell popula tions for molecular analyses. These methodologies have literally reshaped the approaches to fundamental biological questions and have also had a major impact in the area of diagnostic pathology. Much of the groundwork for the development of morphological methods was estab th lished in the early part of the 19 century by Francois-Vincent Raspail, generally acknowledged as the founder of the science of histochemistry. The earliest work in the field was primarily in the hands of botanists and many of the approaches to the under standing of the chemical composition of cells and tissues involved techniques such as microincineration, which destroyed structural integrity. The development of aniline th dyes in the early 20 century served as a major impetus to studies of the structural rather than chemical composition of tissue. Later in the century, however, the focus returned to the identification of chemical constituents in the context of intact cell and tissue structure.

Comparative Clinical Pathology

Urological Pathology

A Translational Medicine Context

Advances in Spermatozoa Research and Application: 2012 Edition

Mohs Micrographic Surgery

Tumors in Domestic Animals, Fifth Edition is a fully revised new edition of the most comprehensive and authoritative reference on veterinary tumor pathology in common domestic animals, now in full color throughout with the most current advances in research and diagnostics. Now in full color with hundreds of exquisite new images showing diagnostic features, pathogenesis, and techniques Adds new sections on relevant clinical pathology and oncology Updated throughout to include the very latest advances in research and diagnostics Takes a logical, user-friendly system approach Written by leading experts on animal tumor pathology

Diagnostic Immunohistochemistry E-Book

Immunohistochemical Expression

A Multidisciplinary Approach

Enzinger and Weiss's Soft Tissue Tumors E-Book