Kidney Cancer

This book is a state-of-the-art reference work covering every aspect of the field of renal cell cancer, from diagnostics to clinical management. It provides an overview of new information concerning epidemiology, molecular and immunologic characteristics, as well as surgical therapy. Particular focus is given to the latest diagnostic tests and genetic counseling. Associated topics such as pain management and palliative care are also covered. It is a vital reference tool for urologists, oncologists and radiologists alike, being the most comprehensive volume available on the subject.

Renal Cell Carcinoma

The third edition of this critically acclaimed book has updated and expanded
Read PDF Immunotherapy Of Metastatic Renal Cell Cancer

the survey of clinical, biological and pathological management of localized and advanced renal cell carcinoma. Internationally renowned editors and contributors explore the latest developments in molecular genetics, focusing on the novel targets that have been discovered in epithelial renal tumors. Comprehensive and authoritative, Renal Cell Carcinoma: Molecular Targets and Clinical Applications, Third Edition is the definitive text on the rapidly evolving landscape of experimental therapeutics, written and edited by leaders of the field.

In Vivo Characterization of Syngeneic, Orthotopic Mouse Model of Cox-2 Positive Renal Cell Cancer

Immunotherapy is a rapidly evolving field that mandates frequent revision of the book as new insights to fight cancer emerge. The third edition of Immunotherapy is an updated overview of immuno-oncology in different cancer types and toxicities associated with immunotherapy. It explores the breath of immunotherapeutic strategies available to treat a wide range of cancers, from melanoma and non-small cell lung cancer to gastrointestinal, genitourinary, gynecologic and nervous system malignancies. With increasing use of checkpoint inhibitors as standard of care and in clinical trials, the challenges associated with their use undoubtedly increase. As objective response is limited to a subset of patients and is often associated with distinct immune related side effects that are potentially life threatening, it is essential to identify patients who are likely to respond to immunotherapy and those who are at a risk for developing treatment-related side effects. In the absence of a validated predictive biomarker, innovative technologies and assays are being used to identify critical biomarkers that drive the immune response. Hence, a chapter to provide a basic understanding of the diagnostic procedures has been included besides the chapter on the cellular components of the human immune system. This new edition will also inform readers on use of novel microbiome and imaging approaches. Finally, the book includes a chapter on patient-reported outcomes in patients treated with immunotherapies as the authors recognize the importance of including missing patient voice in clinical trials and longitudinal assessment of symptom reports. In short, the third edition of this book provides a comprehensive overview of the latest developments in the field of immune-oncology that will help health care professionals make informed treatment decisions. The book’s chapters are written by a diverse cast of experts conducting cutting-edge research, providing the reader with the most up-to-date science.

Kidney Cancer

Kidney cancer imposes a significant cancer burden and its incidence continues to rise globally. Mortality in advanced kidney cancer remains high despite
oncological, surgical and multimodal optimisation. Genetic associations, heterogeneity and limitations in early diagnosis through lack of optimal biomarkers add to the challenges. Over the last two decades there has been an exponential increase in diagnostic and therapeutic advances in the management of kidney cancer. The coupling of scientific advances in engineering and technology with oncological therapeutics has recently ushered a renewed optimism. The role of minimally invasive approaches through focal therapy and surgical extirpation using the robotic platform has been unprecedented and paramount. Virtual augmentation and mixed reality platforms have proved useful supplementary tools in surgical planning. The role of surgical simulation and training in development of surgeons with the optimal skill set is essential to provide optimal care. This book is the first in a series that explores the evolving trends in kidney cancer. The focus of the book is broad and includes topics ranging from immunotherapy to surgical simulation. Some chapters explore leading edge concepts while others capture the evolving trends and future concepts. The Editors aim to stimulate the readers to explore the key concepts and to encourage research and innovation along the main themes presented.

**Immunotherapy**

The volume will serve as a primer on tyrosine kinase signaling and its importance in cancer. The volume will first introduce the common denominators of small-molecule and antibody-derived inhibitors, as well as the general phenomenon of resistance. The volume will then detail resistance to the most commonly used classes of tyrosine kinase inhibitors, and will focus specific chapters on resistance to BCR-ABL1, FLT3, angiokinase family members, and ALK inhibitors.

**Advanced and Metastatic Renal Cell Carcinoma, An Issue of Urologic Clinics**

While patients with metastatic renal cell carcinoma (mRCC) are now living longer with improved quality of life, the success of novel therapies for mRCC has created challenges for practicing oncologists. Many patients who initially respond to targeted therapies ultimately develop progressive disease due to acquired resistance to these agents. Additionally, some patients do not respond at all to any of the currently approved targeted agents, underscoring the need for continued and concerted efforts to identify other relevant targets and pursue alternative therapeutic strategies. Part of the Oxford American Oncology Library, Renal Cell Carcinoma is a concise handbook that addresses the complex management of patients with mRCC. The book begins with a review of the epidemiology, pathology, and biology of renal cell carcinoma followed by chapters on specific targeted therapies and managing complications. The final
chapters discuss supportive and integrative care and emerging therapies.

**Kidney Cancer**

This book is designed to familiarize clinical practitioners in systemic therapy options and medical management of urologic malignancies including prostate cancer, bladder and upper tract urothelial carcinoma, and renal cell carcinoma. Organized by organ system, the text highlights new therapies such as novel forms of androgen deprivation, cytotoxic chemotherapy, immune check point and immunomodulatory agents, and targeted therapies. Written by experts in the field, the book also reviews current chemotherapy and immunotherapy regimens for genitourinary malignancies and discusses indications, outcomes, and toxicities, as well as clinical trial concepts. Each of the book’s chapters offers a bulleted box of clinical pearls on the particular role of the APP.

Chemotherapy and Immunotherapy in Urologic Oncology: A Guide for the Advanced Practice Provider is a resource for urologists, uro-radiologists, medical clinicians and family practitioners alike, familiarizing its audiences with systemic therapy regimens for urologic malignancies, as well as their expected outcomes and side effects.

**Genitourinary Cancer Management**

With contributions by numerous experts


Renal cell carcinoma (RCC) is the third most common genito-urinary cancer. Beyond surgery, few other treatment options for RCC exist and about one-third of the patients who have had nephrectomy develop metastasis subsequently. The treatment of the metastatic disease remains a clinical challenge. Hence, novel therapeutic options are necessary for the patients with metastatic RCC. Immunotherapy is the most common mode of treatment in RCC presently; however, it contributes to a large number of toxic side effects to the patients. The immunotherapeutic regimens currently used to treat metastatic renal cancer are recombinant human interleukin-2 (IL-2) and recombinant human interferon alpha alone or in combination. However, the uses of these high dose cytokines are limited by their toxicity and poor patient response rates. Preclinical studies in animal tumor models of RCC are required to address the newer and effective therapeutic approaches for late stage metastatic RCC. A suitable animal model for studying RCC is lacking. Hence, development of a novel animal model would largely contribute in testing newer therapeutics and combating the metastatic disease. Cyclooxygenases are group of enzymes that catalyze the conversion of arachidonic acid to prostaglandins (PGE2). It
comprises of two isoforms Cox-1 and Cox-2. Previous studies have implicated the potential role of Cox-2 in carcinogenesis and the expression of Cox-2 have been reported in colorectal, lung, breast, gastric and esophageal carcinomas. Cox-2 is also highly expressed in RCC and a potential biomarker in RCC. Based on emerging clinical evidences on the role of Cox-2 in several malignancies, we hypothesize that overexpression of Cox-2 in RCC promotes tumor growth and metastasis. Selective Cox-2 inhibitors act by inhibiting PGE2 synthesis and have been shown to retard tumor formation, metastasis, and angiogenesis. They induce apoptosis and inhibit the PGE2 induced immunosupression. Thus, a specific Cox-2 inhibitor like indomethacin or NS398 would be able to inhibit the tumorigenic properties of Cox-2, thereby attenuating tumor growth and dissemination to other organs. In this context, we injected the Cox-2 engineered Renca cell lines (COX2 -ve and COX2 +ve) in the subcapsular space of kidney of a Balb/c Cr mice. This resulted in the tumor growth, which was monitored by bioluminescence imaging (BLI) for a period of three weeks post-inoculation. Metastases were evident in distant organs such as lung, liver, spleen and lymph nodes. This was expressed as luciferase activity per milligram of protein of the particular tissue normalized with the background luciferase activity per milligram of the tissue from control (non-injected mice). Thus, the animal model was established and validated in our preliminary studies. To address the potential role of PGE2 in the tumor microenvironment, tumors were harvested and then processed for assessment by histology and immunohistochemistry. Initial characterization studies included immunohistochemical assessment of tumor vasculature as elucidated by staining with specific markers for lymphatic vessels (LYVE-1), blood endothelium (CD31) and tumor infiltrating macrophages (Cd11b). Macrophage recruitment close to the LYVE-1+ structures were also determined by the double positive events obtained by staining with both CD11b and LYVE-1. A large number of peripheral (18%±2.79), intratumoral (12%±3) and marginal (7%±2.01) LYVE-1+ve structures were found in PGE2 producing tumor than in the control tumor. Although, the frequency of blood vessels in both the tumor types were unaltered, however, an increased vascular area was obtained in the COX2 +ve tumor than in COX2 -ve tumor. There was a significant increase in the frequency of infiltrating macrophages in the peripheral (25%± 3.86), intratumoral (10%± 3.93) and tumor-kidney margin of COX-2 positive tumors (10%± 2.34) than in the COX-2 negative tumors (12% ± 2.36, 0% and 0%) respectively. Frequency of the blood vessels in both the tumors were unaltered, however, a significant increase in the mean fluorescent intensity (MFI) in the peripheral region (4.3±0.1) of COX2 +ve tumor was observed when compared to COX2 -ve tumors (2.3±0.05). These preliminary studies indicate the potential role of PGE2 in promoting tumor vasculature, increased macrophage recruitment within the tumors and tumor-kidney margins. In our initial studies, a significant enrichment of LYVE-1+ve macrophages were observed in the kidney-tumor sections of the COX2 +ve mice, which might indicate that, PGE2 may promote differentiation of the macrophages into a lymphatic phenotype. Thus, this animal model would
further help in thorough characterization of other immune infiltrating cells like CD8+ T cells and NK cells and thereby lead us to identify the cause of immune dysregulation in renal cell carcinoma due to RCC derived soluble factors like PGE2 and TGF-beta. Furthermore, treatment with Cox-2 inhibitors like NS-398 should retard tumor growth, metastases, immune cell dysregulation, and tumor vasculature.

Rare Kidney Tumors

Kidney Cancer: Principles and Practice is a comprehensive and interdisciplinary textbook that encompasses all clinically relevant aspects of the disease. This new edition has been extensively updated and includes brand new material covering the most recent developments in kidney cancer diagnosis and therapy. The user-friendly and clinically oriented content of the book guarantees that it will be of great interest to a wide range of medical professionals, and every effort has been made to ensure that contributions are both easy to understand and directly related to patient care. Content presentation departs from the usual dense chapter format featuring a lengthy series of paragraphs. Instead, each chapter contains several boxed sections, including one that summarizes essential "take home points" for the busy clinician and another that presents a patient-oriented case highlighting the clinical application of elements discussed in that chapter. In addition, accessible original images, illustrations, and diagrams (some in full color) are used to simplify particularly complex material. This book will be of value for clinicians, researchers, residents, fellows, students, and knowledgeable lay people. The contributors comprise an international group of authors with expertise in kidney cancer epidemiology, molecular biology, pathology, diagnosis, clinical features, staging, prognostic and predictive factors, surgery, systemic therapy, and emerging investigational approaches, among others.

Immunopathology and Immunomodulation

The guest editors, Dr. William Huang and Dr. Ezequiel Becher, have assembled a state-of-the-art issue devoted to Advanced and Metastatic Renal Cell Carcinoma (RCC). They have secured expert authors to contribute clinical reviews on the important topics involving treating and managing patients with RCC. Specific articles are devoted to the following topics: Imaging for Metastatic RCC; Adjuvant Therapy for Localized High Risk RCC; Current Standards for Therapeutic Sequencing for Advanced RCC; Role of Lymphadenectomy in patients with advanced RCC; Cytoreductive Nephrectomy in the Era of TKI/IO - Who, When and Why; Minimally Invasive Surgery for Patients with Locally Advanced and Metastatic Disease RCC; Evolving Role of Urologists in the Management of Advanced RCC; Neoadjuvant Therapy for Locally Advanced RCC; Epidemiology and Risk Assessment/Biomarkers for Patients with Advanced RCC;
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Radiation Therapy for Patients with Metastatic RCC; Evolving Role of Metastatectomy for Patients with Metastatic RCC; and Management of Non-Clear Cell Metastatic RCC. Readers will come away with the information they need to treat and manage patients and to improve outcomes.

Renal Cancer

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!

WHO Classification of Tumours of the Urinary System and Male Genital Organs

This interdisciplinary textbook encompasses all clinically relevant aspects of the disease and is designed to be as user-friendly as possible in order to meet the needs of the busy practitioner. To this end, the informative text is complemented by helpful boxed sections that present essential ‘take home’ points and illustrative patient-oriented cases. Original high-quality images, some in color, are included whenever necessary to simplify particularly complex material. The authors are an international group of acknowledged experts in kidney cancer epidemiology, molecular biology, pathology, diagnosis, clinical features, staging, prognostic and predictive factors, surgery, systemic therapy, and emerging investigational approaches, among others. This clinically oriented volume will be of great interest to clinicians, researchers, residents, and fellows, as well as to students and knowledgeable lay people.

Upper Tract Urothelial Carcinoma

Evolving Treatment Paradigms in Renal Cancer, An Issue of Urologic Clinics - E-Book

This book addresses the most pressing current questions in the management of urologic malignancies. The rapid advances in imaging and molecular markers are placed into a clinical context, with explanation of their effects on prognosis and treatment planning. Similarly, progress in immunotherapy is carefully examined, focusing in particular on the role of immune checkpoint inhibitors in
both early- and late-stage urologic malignancies. Looking beyond the improvements in minimally invasive techniques for urologic cancers, the impacts of care coordination pathways and enhanced recovery after surgery protocols are reviewed. Readers will also find enlightening discussion of the decision algorithm for the treatment of early-stage, high-grade bladder cancer, taking into account evidence on the most advanced treatment options and the circumstances in which surgery may need to be expedited. The penultimate chapter discusses the Cancer Genome Atlas project for bladder cancer, and the book closes by considering contemporary medical and surgical management of testicular cancer.

**Renal Cell Cancer**

This book is a continuation of the efforts of InTech to expand the scientific know-how in the field of immunopathology and bring valuable updated information to medical professionals and researchers. It consists of chapters related to various approaches to investigate the unique role of the immune system in response to different clinical disorders. The international team of authors is the bonus of the book, reflecting the rapid development of immunology and new achievements in medical science. We firmly hope that the book will be an excellent manual and guideline for people dealing with biology, microbiology, immunology, virology, pharmacology, general and dental medicine, and health care, from students and postdocs to high-level specialists and university professors.

**Chemotherapy and Immunotherapy in Urologic Oncology**

This book provides clinicians with clear guidance on treatment decision-making in patients with rare kidney cancers. After a brief review on epidemiology, pathology, and biology, each chapter focuses on the multidisciplinary management of a particular tumor subtype using the full range of available cancer therapy modalities, including surgery, radiotherapy, chemotherapy, targeted therapies, and immunotherapy. Emerging therapies and future directions in the management of each cancer subtype are also discussed. The chapters are all written by multidisciplinary teams of international experts comprising at least a urologist, a medical oncologist, and a pathologist. Rare kidney cancers represent 15% of renal cell carcinomas. In comparison with clear cell renal cell carcinomas, little is known about the biology of such cancers, and few trials have reported on the efficacy of targeted therapies in the metastatic setting. Optimal management thus poses significant challenges and often requires a multidisciplinary team. This book will be an ideal reference guide for all clinicians involved in the care of patients with these orphan tumors.

**Immunotherapy of Hepatocellular Carcinoma**
This book provides an essential introduction and guide for oncologists, immunologists and clinicians treating cancer patients.

Renal Cell Carcinoma

In many tumor types, where the prognosis was shown to be extremely dismal before, immunotherapy is now a new beacon of hope to many patients. Immunotherapy has been approved for use in a many different cancers including metastatic melanoma, advanced non-small cell lung cancer, metastatic renal cell carcinoma, refractory Hodgkin's lymphoma, metastatic bladder cancer advanced head and neck cancer, and the list keeps growing each day. It seems to be generally better tolerated in most patients and less toxic compared to what we have seen in different anticancer treatments from before. However, the toxicities here are termed immune-related adverse events. There is almost no prospective data on these toxicities, and guidelines or recommendations are mostly based on symptomatic management from the ongoing clinical trials. Treating oncologists need to be aware of the subtleties in presentation and the huge difference in the way we mange these side effects. Although most adverse events are low-grade and manageable, they have the potential to be life-threatening if not treated promptly. In this chapter, we address the different immune-related adverse events relating to the organ system they can involve, presentation and symptomatology, general recommendations of management, and individual toxicities. Keywords: immunotherapy, PD-1, CTLA-4.

Cancer Vaccines and Immunotherapy

Renal Cell Carcinoma: New Insights for the Healthcare Professional / 2012 Edition is a ScholarlyBrief™ that delivers timely, authoritative, comprehensive, and specialized information about Renal Cell Carcinoma in a concise format. The editors have built Renal Cell Carcinoma: New Insights for the Healthcare Professional / 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Renal Cell Carcinoma 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 Renal Cell Carcinoma: New Insights for the Healthcare Professional / 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/.

Medifocus Guidebook On: Renal Cell Carcinoma
Despite the rising popularity of the minimally invasive laparoscopic option, open nephron-sparing surgery is still seen by many experts as the 'gold standard' for open surgery for kidney tumors and should remain the first choice for many patients. This challenges the idea that less-invasive therapies are always more desirable than open surgery. Whi

Genitourinary Cancers

In this book we provide insights into liver – cancer and immunology. Experts in the field provide an overview over fundamental immunological questions in liver cancer and tumorimmunology, which form the base for immune based approaches in HCC, which gain increasing interest in the community due to first promising results obtained in early clinical trials. Hepatocellular carcinoma (HCC) is the third most common cause of cancer related death in the United States. Treatment options are limited. Viral hepatitis is one of the major risk factors for HCC, which represents a typical “inflammation-induced” cancer. Immune-based treatment approaches have revolutionized oncology in recent years. Various treatment strategies have received FDA approval including dendritic cell vaccination, for prostate cancer as well as immune checkpoint inhibition targeting the CTLA4 or the PD1/PDL1 axis in melanoma, lung, and kidney cancer. Additionally, cell based therapies (adoptive T cell therapy, CAR T cells and TCR transduced T cells) have demonstrated significant efficacy in patients with B cell malignancies and melanoma. Immune checkpoint inhibitors in particular have generated enormous excitement across the entire field of oncology, providing a significant benefit to a minority of patients.

Clinical Management of Renal Tumors

Renal cell carcinoma represents a heterogeneous group of tumors, the most common of which is clear cell adenocarcinoma. The annual incidence of this tumor appears to be rising and approximately 12,000 individuals die from this cancer annually in the United States. One third of patients who present have metastatic disease at the time of diagnosis, and another 40% who undergo nephrectomy will ultimately develop this complication. Over the past 10 years, a significant amount of new information concerning the epidemiology, molecular and immunologic characteristics, and therapy for patients with these tumors has appeared. The recognition that inherited forms of renal cancer exist, and that chromosomal abnormalities can be identified in these tumors, suggested a genetic basis for renal cell carcinoma. The familial cancer syndrome, Von Hippel Lindau disease, provided the setting in which the genetic abnormalities associated with the development of renal cancer were first described. Abnormalities of the VHL gene have also been detected in sporadic clear cell carcinoma, and it has now been recognized that approximately 80 % of these tumors will demonstrate characteristic alterations. Currently the functions of the
VHL protein are being investigated, and the biology of clear cell carcinoma of the kidney is under study. Additionally, papillary carcinomas of the kidney appear to express different molecular defects, and these are now being unraveled.

**Immunotherapy of Renal Cell Carcinoma**

**Interleukin-2 Based Immunotherapy in Patients with Metastatic Renal Cell Carcinoma**

(1E 1991) Presents biologic therapy w/Interleukin-2/cell transfer therapy/cancer vaccines/gene therapy of cancer/etc.

**Resistance to Tyrosine Kinase Inhibitors**

Upper Tract Urothelial Carcinoma represents the first book of its kind to be dedicated solely to UTUC. It's aim is to improve understanding and eventually care of a disease that is greatly understudied and underappreciated, yet commonly dealt with by many medical and urologic oncologists. The volume features new data regarding genetic susceptibility, gene expression studies and causative factors; contemporary concepts and controversies regarding diagnosis and staging of UTUC; prediction tools and their value in treatment decisions within each disease stage and patient selection and treatment options such as endoscopic management, distal ureterectomy, radical nephroureterectomy and chemotherapy. Up-to-date information regarding boundaries of surgical resection, indication and extent of lymphadenectomy is covered as well as the role of perioperative/neoadjuvant chemotherapy in patients with high-risk UTUC. Upper Tract Urothelial Carcinoma will be of great value to all Urologists, Medical Oncologists and fellows in Urologic Oncology as well as upper level residents in training in Urology and Medical Oncology.

**Biologic Therapy of Cancer**

This issue of Emerging Cancer Therapeutics provides a comprehensive review for practitioners on the current status of renal cancer treatment. Renal cancer treatment has undergone major changes over the course of the past few years and Renal Cancer addresses current best practices in the light of the most recent evidence. All of the chapters are written by international experts in the field, address the common clinical scenarios in renal cancer and are multidisciplinary in scope covering surgical, medical, and radiation therapy. Chapters examining emerging and novel therapeutic targets, the management of both CNS, and skeletal metastases in renal cancer round out the coverage. Emerging Cancer Therapeutics features: Editorial board of nationally recognized
Emerging Research and Treatments in Renal Cell Carcinoma

Kidney Cancer: New Insights for the Healthcare Professional / 2012 Edition is a ScholarlyBrief™ that delivers timely, authoritative, comprehensive, and specialized information about Kidney Cancer in a concise format. The editors have built Kidney Cancer: New Insights for the Healthcare Professional / 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Kidney Cancer 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 Kidney Cancer: New Insights for the Healthcare Professional / 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/.

Urological Pathology

The MediFocus Guidebook on Renal Cell Carcinoma is the most comprehensive, up-to-date source of information available. You will get answers to your questions, including risk factors of Renal Cell Carcinoma, standard and alternative treatment options, leading doctors, hospitals and medical centers that specialize in Renal Cell Carcinoma, results of the latest clinical trials, support groups and additional resources, and promising new treatments on the horizon. This one of a kind Guidebook offers answers to your critical health questions including the latest treatments, clinical trials, and expert research; high quality, professional level information you can trust and understand culled from the latest peer-reviewed journals; and a unique resource to find leading experts, institutions, and support organizations including contact information and hyperlinks. This Guidebook was updated on February 2, 2012.

Management and Supportive Care of Patients Undergoing Immunotherapy
Invasive bladder tumors affect the muscle wall, and have a propensity to metastasize and spread to other areas of the body, and are more likely to be fatal. This book presents state-of-the-art diagnoses and treatments available for bladder cancer that has metastasised into the body. A thorough review of current practice is presented in a full color volume with more than 40 tables and 50 illustrations. The book offers a comprehensive review of the subject, covering epidemiology, screening, diagnostic factors, surgery, chemotherapy and post-operative monitoring. Most chapters are jointly written by a basic researcher and a clinician.


This volume provides an in-depth review of the data relating to the management of renal tumors as well as an updated description regarding pathologic and molecular classification of renal tumors. The neoplasms covered include clear cell carcinomas, papillary cancers, nonepithelial tumors, and other mass lesions that resemble tumors. The management of patients with renal cancer having localized or advanced disease is discussed. Surgical approaches for primary and metastatic tumors, symptom palliation, and systemic therapy for metastatic disease including immunotherapy and targeted approaches are discussed in detail.

**Invasive Bladder Cancer**

WHO Classification of Tumours of the Urinary System and Male Genital Organs is the eighth volume in the 4th Edition of the WHO series on histological and genetic typing of human tumours. 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. Diagnostic criteria, pathological features, and associated genetic alterations are described in a strictly disease-oriented manner. Sections on all recognized neoplasms and their variants include new ICD-O codes, epidemiology, clinical features, macroscopy, pathology, genetics, and prognosis and predictive factors. It contains numerous color photographs, MRIs, ultrasound images, CT scans, charts and references.

**Rare Genitourinary Tumors**

This book provides a comprehensive review of diagnosis and treatments of renal cell carcinoma (RCC) for practitioners and researchers with an interest in this disease. A major aim of the book is to present the most important and most recent advances in molecular bases and targeted therapy for this neoplasm. The remarkable resistance to chemotherapy and radiotherapy and the minimum
contribution of cancer genes that commonly mutate in other adult epithelial cancers have made RCC highly distinct from other types of solid neoplasms. In the past decade, however, treatment options for RCC have been expanding and moving quickly toward laboratory-based and molecular-targeted therapies. Advances in RCC therapy also have brought novel treatment options to other types of cancer, such as a TKI for hepatocellular carcinoma and gastrointestinal tumors, as well as mTOR inhibitors to progressive neuroendocrine tumors of pancreatic origin and to breast cancer, suggesting that RCC is no longer an "orphan disease" in the field of molecular oncology. Additional topics covered in the book include pharmacokinetics and pharmacodynamics in molecular-targeted agents and the putative mechanism of resistance to anti-angiogenic agents, such as intratumoral heterogeneity or cancer stem cell population. This volume provides the latest and most useful information for all readers who are eagerly devoted to curing renal cell carcinoma.

Renal Cell Carcinoma

This issue of the Urologic Clinics provides a timely update on Renal Cancer and the evolving treatment standards in urology. Articles include Contemporary Imaging of the Renal Mass, Surgical Approach to Multifocal Renal Cancers, and Systemic Therapy Prior to Surgery. Effects of the various existing surgical approaches on long-term renal function is also discussed, along with a review of the current trends in surgical management of renal cancers with specific attention to utilization of laparoscopic approach, partial nephrectomy, ablative technologies and observation.

Adoptive Immunotherapy with Interleukin-2 and Interferon-alpha in Metastatic Renal Cell Cancer and Melanoma

Renal Cell Carcinoma

Kidney cancer is a heterogenous disease. This book covers: -new surgical approaches which are becoming the standard, i.e., nephon sparing, laparoscopic, minimally invasive techniques; -new staging and prognostic capabilities; -evolving therapeutic options include, cell based vaccine, gene and antibody therapy; -molecular genetics allow for a better understanding of the various types of kidney cancer. Kidney Cancer is a comprehensive review covering present and future surgical approaches, staging and prognostic factors, currently accepted and future plans for prevention, diagnosis and treatment. Contributing authors to this book are internationally recognized specialists in this disease. This book will be useful to the specialist (oncologist and urologist), primary care physicians, patients and family members dealing
Renal Cancer

The management of advanced renal cell carcinoma is still problematic. Surgery, although the therapy of choice for locally advanced renal tumors, is still controversial as the treatment for metastases. The role of surgery in the management of patients with pulmonary, bony, and liver metastasis is one of the subject matters discussed in this book. Our results with series of patients undergoing resection of metastases from the lung, bone, and liver show that surgery may be appropriate in selected patients with a good performance status, although most of them certainly cannot be cured by this procedure alone, i.e., in the absence of effective adjuvant therapies. As recent developments show, new strategies for immunotherapy of renal cell carcinoma represent a modest advance over traditional approaches in the treatment of this cancer, such as chemo- and radiotherapy. Clinical trials employing recombinant interferon-a and interleukin 2 produced response rates in up to 30% of patients treated, as evidenced by the European Immunotherapy Trials Program. The adverse reactions and the lack of efficacy in the majority of patients warrants the search for new immunotherapeutic approaches.

Nephron-Sparing Surgery

Renal Cancer: Contemporary Management provides a state of the art overview of the major topics in the field of kidney cancer. The material has been collected from the most current evidence based resources to allow for the appropriate care of these patients. The sections of the book have been structured to give an overview of the major issues dealing with renal cell carcinoma and transitional cell carcinoma of the kidney. The text also reviews the new staging system, discusses familial syndromes of renal cell carcinoma, and provides new perspectives with regard to imaging and managing renal tumors. A valuable resource for physicians and researchers dealing with renal cancer, Renal Cancer: Contemporary Management provides a comprehensive summary of the field that will guide patient management and stimulate further clinical and basic science research efforts.

Contemporary Research on Renal Cell Carcinoma

The field of renal cell cancer has undergone a significant resurgence. This book summarizes up-to-date research and innovative ideas for the future in this rapidly changing field, which encompasses medicine, surgery, radiation oncology, basic science, pathology, radiology, and supportive care. This book is aimed at the clinician or scientist who has an interest in renal cell cancer, whether they are academic or nonacademic. The book covers tumor biology,
molecular biology, surgery techniques, radiation therapy, personal testimonies, and present and future treatments of the disease that are on the horizon. The goal was to produce a textbook that would act as an authoritative source for scientists and clinicians and interpret the field for trainees in surgery, medicine, radiation oncology, and pathology.

**Evolving Trends in Kidney Cancer**

Rare Genitourinary Tumors offers the reader an up-to-date discussion of the less common neoplasms affecting the urinary tract and reproductive organs. Each authoritative chapter provides and in-depth discussion that is frequently not found in other urologic oncology textbooks. A valuable reference for urologists, oncologists, and those in specialty training, this volume provides ready access to information on etiology, incidence, risk factors, diagnosis, prognosis, insights from molecular pathology and, where applicable, data from clinical trials. The practical treatment guidelines included for each tumor type are written by experts and fully referenced.

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