

Colon Cancer Springer

Hans-Jorg Senn H.-J. Senn (~) Center for Tumor Detection and Prevention, Rorschacherstr. 150, CH-9006 St. Gallen, Switzerland
Clinical oncology has centered mainly on developing new strategies and a multitude of new drugs for fighting relapsing and progressive cancer during the last two decades. Furthermore, it has done this with respectable success in quite a number of neoplastic diseases such as acute leukemias and sarcomas in pediatric patients and certain types of aggressive lymphomas, as well as selected solid tumors such as testicular cancer and choriocarcinoma in adult age. Curatively intended adjuvant chemo-and endocrine-therapies of several "main killers" among prevalent cancer types, especially breast and colon cancer, have also become successful and health-politically meaningful therapeutic targets [1, 2]. However, the net gain in "cure" of these (mostly pharmacologic) therapeutic approaches has to be realistically judged as having a moderate impact on the cancer problem as a whole, and the mortality rate of the most frequent tumor types, which are prevalent in adult life, has with very few exceptions not been substantially decreased over the past two to three decades. Increasingly, health politicians, epidemiologists, and medical journal editors are asking for alternative strategies of lowering cancer incidence and increasing survival, ventilating new and hitherto mostly neglected areas of research such as primary and secondary cancer prevention.

Since the success in chemical induction of cancer in rabbit's ear skin by K. Yamagiwa in 1915, oncologists of the world have come to believe that they can only solve their problems by means of animal experimentation. The importance of environmental factors became more evident in 1935 when T. Yoshida and T. Sasaki introduced azodye hepatocarcinogenesis in rats. In the domain of the gastrointestinal tract, T. Sugimura has more recently accumulated enough evidence to indicate that locally active chemical mutagens are carcinogenic. In contrast, principal approaches to colorectal tumors have been quite different: emphasis has been placed on gene identification. Long before cancer of the large bowel was recognized, importance of the roles of adenomatosis coli and its familial occurrence attracted the attention of epidemiologists and geneticists. Morphological characterization and analysis of hereditary trends of human material have already had a long history, and recently detailed analysis of genetic material has become feasible in the wake of rapid development in our knowledge of the oncoviruses, oncogenes, suppressor genes, chromosomal and DNA mapping, molecular mutation and so on. It is true that in colorectal pathology, and in no other field, these areas of research have been explored more extensively and decisively. The identification of previously ill-defined lesions such as precancers and benign neoplasms have been improved because sequential changes can be observed in multiple samples spread over a wide area and followed up in due course.

This book highlights the importance of understanding gastric and

colon cancer metabolism in guiding diagnosis and drug discovery. It summarizes the correlation between adiponectin and matrix metalloproteinase with colorectal cancer. The book also evaluates the divergent role of hypoxia-inducible factor 1 in colorectal cancer growth and metastasis. After discussing the role of genetic polymorphisms in alcohol metabolizing enzymes and EPHX1 with the onset of colorectal cancer, it reviews the molecular mechanisms of chemoresistance in gastric cancer and novel therapeutic strategies to reverse the chemoresistance of tumors. In addition, the book explores the theranostic role of nanoparticles and therapeutic potential of phytochemicals with regard to colorectal cancer. Given its scope, the book offers a valuable guide for oncologists, academic researchers, pharmaceuticals practitioners, and students who are involved in research and treatment of cancer.

This book provides clear surgical options when the cases are not "routine". It follows both a "how to" manual as well as an algorithm-based guide to allow the reader to understand the thought process behind the proposed treatment strategy. In each chapter, international experts address how to avoid being in tough surgical situations through preoperative planning, how to better deal with commonly encountered intra-operative findings, how to deal with difficult laparoscopic, open, endoscopic, and anorectal cases, and how to avoid medico-legal issues. Colorectal Surgery Consultation is simple and succinct and provides pragmatic advice and reproducible techniques that can be readily implemented by surgeons of varying experience to successfully treat complex colorectal problems through endoscopic and endoluminal approaches that may make the difference in patient outcomes.

Diseases of the Abdomen and Pelvis 2018-2021

Evidence-Based Treatment and Multidisciplinary Patient Care

Experimental and Clinical Metastasis

Natural Orifice Specimen Extraction Surgery

The ASCRS Manual of Colon and Rectal Surgery

Volume 2

This atlas, containing a wealth of clear operative images, is designed to enable trainee surgeons to visualise the surgical field for procedures specific to laparoscopic colorectal surgery, thereby facilitating understanding and learning of surgical techniques and avoidance of intra- and postoperative complications. Step-by-step guidance is provided for a wide range of procedures employed in patients with benign and malignant tumours, inflammatory bowel disease, diverticular disease, rectal prolapse and other conditions. Examples include right colectomy techniques, sigmoid colectomy, left hemicolectomy, total colectomy, panproctocolectomy, total mesorectal excision, Hartmann ' s procedure and its reversal and rectopexy.

Throughout, meticulous attention is paid to surgical anatomy. Whenever considered necessary, additional line drawings are included to aid comprehension of particular steps in the surgery. Readers seeking to improve their comprehension of surgical anatomy and how to perform these operative procedures will find the atlas to be an unparalleled source of information and assistance. A complementary book from the same authors focuses on open colorectal surgery.

This atlas, containing a wealth of clear operative images, is designed to enable trainee surgeons to visualise the surgical field for procedures specific to open colorectal surgery, thereby facilitating understanding and learning of surgical techniques and avoidance of intra- and postoperative complications. Step-by-step guidance is provided for a wide range of procedures to the colon, rectum, pelvic floor, anus and anal canal, in each case paying meticulous attention to surgical anatomy. The full range of potential indications for open surgery is considered, including benign and malignant tumours, inflammatory bowel disease, appendicitis, diverticulitis, hemorrhoids, anal fistulas and rectal prolapse among others. Whenever considered necessary, additional line drawings are included to aid comprehension of particular steps in the surgery. Readers seeking to improve their understanding of surgical anatomy and how to perform these operative procedures will find the atlas to be an unparalleled source of information and assistance. A complementary book from the same authors focuses on laparoscopic colorectal surgery.

This Cancer Prevention book series aims to complement the research reported in the journal *Cancer Causes and Control*. Volumes in this series will summarize the state of the science from causes to prevention of cancer. The scope will be international. The past 20 years has seen an explosion of epidemiologic material on the causes of cancer. Examples include the growing number of studies of physical activity and colon cancer which have emerged and the numerous studies of components of diet such as alcohol and the risk of specific cancers. Major shifts in resource allocation now focus on translation of this new knowledge to actual cancer prevention programs. Researchers, practicing clinicians, and those who write and implement public health policy need this information summarized in an easily accessible format. The abundance of knowledge, increasing understanding of how to communicate risk of cancer to the public, and greater public awareness of cancer, make the coming years ones in which we will see many new attempts at widespread cancer prevention programs. For example, the U.S. Centers for Disease Control and Prevention launched a national colon cancer awareness campaign in early 1999.

Handbook of Gastrointestinal Cancers is a practical guide to the management of colorectal, pancreatic, hepatocellular, gastric, and esophageal cancers as well as other cancers of the upper and lower gastrointestinal tract. Edited by a multidisciplinary group of oncologists from leading institutions, this book is an essential day-to-day reference for evidence-based treatment and patient care. The handbook focuses on treatment strategies and approaches to cancerous gastrointestinal tumors that are transforming the recent oncological landscape, including expert-given guidance on methods such as neoadjuvant and adjuvant chemotherapy, surgical transplant, radiation therapy, molecular diagnostic testing leading to molecularly targeted therapy, and immunotherapy. With so many advances in the current field, it is increasingly difficult for early-career practitioners to grasp the entirety of practices and for seasoned oncologists to keep up with newly approved therapies, side effects to treatments, and special clinical management considerations, but this handbook addresses it all. Organized by major gastrointestinal disease sites and featuring “How I Treat” case vignettes from world experts for common and uncommon management considerations, the handbook brings an experience-based perspective to these tough-to-treat areas. The treatment strategies and applications set forth in

the chapters are pertinent to situations and decision-making encountered in practice. Handbook of Gastrointestinal Cancers is a valuable resource for medical oncologists, radiation oncologists, and surgeons treating and managing gastrointestinal cancers as well as trainees in medical, radiation, and surgical oncology programs needing an accessible point of care resource. Key Features: Provides treatment plans and recommendations for each stage of a range of gastrointestinal cancers, including colorectal, pancreatic, and hepatocellular cancers plus more Includes “ How I Treat ” patient vignettes told from the physician ’ s point of view within each clinical chapter Outlines special considerations for the elderly and for survivors of gastrointestinal cancers Highlights important clinical guidance on nutritional and palliative concerns commonly seen in patients with gastrointestinal cancers Dietary Modulation of Cellular and Molecular Mechanisms Molecular Pathogenesis of Colorectal Cancer Emergency Surgical Management of Colorectal Cancer Proceedings of the Fourth International Symposium on Colorectal Cancer (ISCC-4) November 9–11, 1989, Kobe Japan Colon Cancer Diagnosis and Therapy Tumor Prevention and Genetics

This third edition manual provides a comprehensive, insightful, evidenced-based review of general surgical oncology and serves as a valuable resource for general surgeons in training, practicing general surgeons, and surgical oncologists. The volume describes a multidisciplinary approach that integrates clinical, radiologic, and pathologic data in formulating practical clinical management, and offers a practical approach to the most common situations when treating cancer patients. Each chapter focuses on an individual malignancy and describes the presentation of the malignancy, integrated management based on stage, landmark trials, and suggestions for who to discuss at multidisciplinary cancer conferences. Multiple tables in each chapter provide a concise yet comprehensive summary of the current status of the field. Clinical “pearls” or tips and tricks from high volume surgeons at the University of Toronto are also discussed. The third edition of the Surgical Oncology Manual will serve as a critical resource for general surgeons in training and practicing surgeons dealing with this challenging field.

The second edition of Inherited Cancer Syndromes incorporates new genetic markers data with the clinical utility and practicality of the first edition.

This textbook discusses core principles and practices in gastrointestinal oncology and covers a wide range of practice areas such as pathology and radiologic images, epidemiology, genetics, staging, multidisciplinary management of specific gastrointestinal cancer, and pathology for each primary tumor site. The comprehensive coverage makes Textbook of Gastrointestinal Oncology a useful resource for the practitioner wishing to gain a greater understanding of the principles of managing malignant gastrointestinal disease, as well as medical oncology fellows, surgeons, radiation oncologists, gastroenterologists and fellows, and residents.

The ASCRS Manual of Colon and Rectal Surgery, Second Edition is designed to provide a rapid access pocket reference for residents, fellows, private clinicians, and allied health professionals caring for patients with colorectal surgical diseases. The Manual, abstracted from the ASCRS Textbook of Colon and Rectal Surgery, Second Edition, is intended to impart succinct, clinically relevant information for daily patient care. The chapters take an evidence-based approach and many provide ASCRS practice parameters. The contents are presented consistently, with concise overviews of the most clinically relevant topics. The disease chapters discuss etiology, anatomic considerations, patient evaluation, lab results, imaging, diagnosis and treatment. The surgical chapters address these same issues, in addition to discussion of minimally invasive versus open techniques, possible complications, and perioperative care. The Manual also includes anatomical and technique drawings, operative photos and algorithms. Concise yet comprehensive, The ASCRS Manual of Colon and Rectal Surgery, Second Edition is very useful for physicians and researchers dealing with diseases of the colon and rectum.

Colon Polyps and Colorectal Cancer

Environment and Public Health: New Insights for the Healthcare Professional: 2013 Edition

Tips and Tricks for the Management of Operative Challenges

Recent Advances in the Treatment of Colorectal Cancer

Surgical Treatment of Colorectal Cancer

Current Clinical Management

This book examines the latest indications and techniques for various endoscopic and surgical colorectal cancer treatments, discussing not only on the standard lymph node dissection technique, but also on laparoscopic and robotic surgery. It particularly focuses on the treatment of rectal cancer, with chapters on radiation therapy and sphincter preservation, which is analyzed from Asian perspectives that differ from those of Western treatment. Further, it presents the results of combining chemotherapy and oral drugs, as well as the treatment of hereditary cancer using next-generation sequencing for genetic diagnosis. Edited by surgeons who have pioneered the research and treatment of colorectal cancer, Recent Advances in the Treatment of Colorectal Cancer presents extensive information for clinicians such as endoscopic surgeons, colorectal surgeons, as well as oncologists and researchers specializing in this field. Providing a foundation for new ideas, it enables advanced surgeons to further develop their skills and offers thought-provoking, instructive and informative reading for residents, students and medical staff.

This book explains clearly the nature of colon polyps and their relationship with colorectal cancer, which is among the three most common cancers in both men and women. Up-to-date information is provided on anatomy, pathology, types of polyp and their treatment, and the performance of colonoscopy. Particular attention is devoted to the risk factors for

development of colorectal cancer, with detailed guidance on its prevention and early diagnosis and treatment. While the book is primarily intended for medical specialists and students, a deliberate and consistent effort has been made to use plain language that will enable other interested persons, including patients, to understand all aspects of the subject.

This book explains clearly the nature of colon polyps and their relationship with colorectal cancer, which is among the three most common cancers in both men and women. Up-to-date information is provided on anatomy, pathology, types of polyp and their treatment, and the performance of colonoscopy. Particular attention is devoted to the risk factors for development of colorectal cancer, with detailed guidance on its prevention and early diagnosis and treatment. While the book is primarily intended for medical specialists and students, a deliberate and consistent effort has been made to use plain language that will enable other interested persons, including patients, to understand all aspects of the subject.

Advances in Combined Modality Therapy Research and Application: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Adjuvant Radiotherapy. The editors have built Advances in Combined Modality Therapy Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Adjuvant Radiotherapy in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Advances in Combined Modality Therapy Research and Application: 2013 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/>.

Advancing the Science of Cancer in Latinos

Surgical Oncology Manual

Surgical Oncology

ScholarlyBrief

Hereditary Nonpolyposis Colorectal Cancer: New Insights for the Healthcare Professional: 2013 Edition

Vol. 2, Open procedures

Environment and Public Health: New Insights for the Healthcare Professional: 2013 Edition is a ScholarlyBrief™ that delivers timely, authoritative, comprehensive, and specialized information about Diagnosis and Screening in a concise format. The editors have built Environment and Public Health: New Insights for the Healthcare Professional: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Diagnosis and Screening in this book to be deeper than what you can access anywhere

else, as well as consistently reliable, authoritative, informed, and relevant. The content of *Environment and Public Health: New Insights for the Healthcare Professional: 2013 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/>.

This open access book gives an overview of the sessions, panel discussions, and outcomes of the Advancing the Science of Cancer in Latinos conference, held in February 2018 in San Antonio, Texas, USA, and hosted by the Mays Cancer Center and the Institute for Health Promotion Research at UT Health San Antonio. Latinos – the largest, youngest, and fastest-growing minority group in the United States – are expected to face a 142% rise in cancer cases in coming years. Although there has been substantial advancement in cancer prevention, screening, diagnosis, and treatment over the past few decades, addressing Latino cancer health disparities has not nearly kept pace with progress. The diverse and dynamic group of speakers and panelists brought together at the Advancing the Science of Cancer in Latinos conference provided in-depth insights as well as progress and actionable goals for Latino-focused basic science research, clinical best practices, community interventions, and what can be done by way of prevention, screening, diagnosis, and treatment of cancer in Latinos. These insights have been translated into the chapters included in this compendium; the chapters summarize the presentations and include current knowledge in the specific topic areas, identified gaps, and top priority areas for future cancer research in Latinos. Topics included among the chapters: Colorectal cancer disparities in Latinos: Genes vs. Environment Breast cancer risk and mortality in women of Latin American origin Differential cancer risk in Latinos: The role of diet Overcoming barriers for Latinos on cancer clinical trials Es tiempo: Engaging Latinas in cervical cancer research Emerging policies in U.S. health care Advancing the Science of Cancer in Latinos proves to be an indispensable resource offering key insights into actionable targets for basic science research, suggestions for clinical best practices and community interventions, and novel strategies and advocacy opportunities to reduce health disparities in Latino communities. It will find an engaged audience among researchers, academics, physicians and other healthcare professionals, patient advocates, students, and others with an interest in the broad field of Latino cancer.

This volume provides an overview of the current evidence-based medical

and surgical practice in emergency conditions in colorectal cancer patients. It offers a multidisciplinary perspective, taking into account the specific characteristics of colorectal cancer patients, the necessary pre-operative assessment, the endoscopic and radiological management, and the surgical treatments. Each chapter is supplemented with tables, figures, key-point boxes, schematic representations, and decision-making trees that serve as easy-to-use tools to apply in the different scenarios requiring acute care. Recommendations for best practice and the main reference articles are included for each topic, as well as numerous illustrated clinical cases with clinical and empirical evidence regarding the surgical management of colorectal cancer. Specific technical aspects of the different surgical interventions and approaches (e.g., open surgery, laparoscopy, and robotics) are also detailed. This book is intended for residents and emergency surgeons, as well as all practitioners who treat colorectal cancer patients, such as gastroenterologists, oncologists, and radiologists.

Rectal cancer is one of the most prevalent cancers world-wide. It is also a paradigm for multimodal management, as the combination of surgery, chemotherapy and radiotherapy is often necessary to achieve the optimal outcome. Recently, international experts met in Heidelberg, Germany to discuss the latest developments in the management of rectal cancer, including the anatomic and pathologic basis, staging tools, surgical concepts including fast-track surgery and laparoscopic resection, functional outcome after surgery and the role of radio- and chemotherapy. This monograph summarizes this meeting and gives an extensive overview of the current concepts in management of rectal cancer.

A Quick Guide to Cancer Epidemiology

Metastasis of Colorectal Cancer

Textbook of Gastrointestinal Oncology

in vitro and ex vivo models

Asian Perspectives on Optimization and Standardization

Gut Microbiome-Related Diseases and Therapies

"Infogest" (Improving Health Properties of Food by Sharing our Knowledge on the Digestive Process) is an EU COST action/network in the domain of Food and Agriculture that will last for 4 years from April 4, 2011. Infogest aims at building an open international network of institutes undertaking multidisciplinary basic research on food digestion gathering scientists from different origins (food scientists, gut physiologists, nutritionists...). The network gathers 70 partners from academia, corresponding to a total of 29 countries. The three main scientific goals are: Identify the beneficial food components released in the gut during digestion; Support the effect of beneficial food components on human health; Promote harmonization of

currently used digestion models Infogest meetings highlighted the need for a publication that would provide researchers with an insight into the advantages and disadvantages associated with the use of respective in vitro and ex vivo assays to evaluate the effects of foods and food bioactives on health. Such assays are particularly important in situations where a large number of foods/bioactives need to be screened rapidly and in a cost effective manner in order to ultimately identify lead foods/bioactives that can be the subject of in vivo assays. The book is an asset to researchers wishing to study the health benefits of their foods and food bioactives of interest and highlights which in vitro/ex vivo assays are of greatest relevance to their goals, what sort of outputs/data can be generated and, as noted above, highlight the strengths and weaknesses of the various assays. It is also an important resource for undergraduate students in the 'food and health' arena.

Metastatic disease is the most lethal aspect of human malignancies, making the understanding and continued research of the process of metastasis a crucial step in treating cancer. The proposed book, entitled "Experimental and Clinical Metastasis: A Comprehensive Review" aims to provide a clear and extensive review of the clinical and experimental implications of metastatic disease. This work focuses on recent contributions to the field of metastasis, and will highlight crucial findings in the molecular understanding of disseminated disease as well as standard and personalized medicine currently being investigated in the clinic. Topics will include, among many, gene properties of metastatic cells, molecular mechanisms of tumour growth and spread, animal models of metastasis, and clinical implications, markers and treatment for metastatic disease. With the participation of worldwide experts in the field of oncology, from major academic and government centres, this book will provide a leading manual for the study of the metastatic process, from benchside science to bedside care. In this light, the proposed book will facilitate classroom learning for both medical and graduate students, as well as serve as a tool for physicians and researchers interested in the metastatic process. In addition, this book will include the latest advances in basic science as well as leading technologies and theories of targeting metastatic cells. Most importantly, not only will basic and clinical aspects be discussed, but furthermore, the translational aspect of research in metastatic diseases will be emphasized.

This introduces the theoretical and practical guide of NOSES. The book introduced 10 different techniques of NOSES for colorectal neoplasms based on extensive high-quality surgical images. The first part mainly describes the development process of NOSES and the current achievements of these techniques which will provide readers a general understanding of NOSES. The second part elaborates on ten different surgical procedures specific to position of tumor location of NOSES in detail. All key technical points and operational skills regarding to NOSES are displayed by both high-quality images. The indications and contraindications are also strictly determined in this book. In addition to the elaboration of NOSES, each chapter of this book also

conduct a detailed and comprehensive analysis the hot spots, technical difficulties and key issues with regard to laparoscopic surgery for colorectal cancer. This book is suitable for the colorectal cancer surgeons and doctors of general surgery.

This third edition text provides a completely revised and updated new version of this unique, modern, practical text that covers the strategic evaluation, specific approaches, and detailed management techniques utilized by expert colorectal surgeons caring for patients with complex problems—whether they result from underlying colorectal disease or from complications arising from previous surgical therapy. The format follows that of both a “how to” manual as well as an algorithm-based guide to allow the reader to understand the thought process behind the proposed treatment strategy. By making use of evidence-based recommendations, each chapter includes not only background information and diagnostic/therapeutic guidelines, but also provides a narrative by the author on his/her operative technical details and perioperative “tips and tricks” that they utilize in the management of these complex surgical challenges. Distinctive to this book, is the reliance on experts in the field including past presidents of the ASCRS, as well as multiple other national and internationally recognized surgeons, to lend their personal insight into situations where data may be more sparse, but individual and collective experience is paramount to making sound decisions and thereby optimizing patient outcomes. The text includes chapters on the assessment of risk and methods utilized to minimize perioperative complications. In addition, it incorporates sections covering the medical and surgical therapies for abdominal, pelvic and anorectal disease. Moreover, the technical challenges of managing complications resulting from the original or subsequent operations is addressed. The underlying focus throughout the text is on providing pragmatic and understandable solutions that can be readily implemented by surgeons of varying experience to successfully treat complex colorectal problems. However, it also goes beyond the technical aspects of colorectal surgery and includes special sections highlighting the essence of a surgeon; covering aspects involving the medical-legal, ethical, and economic challenges confronting surgeons. Throughout the text, each author provides an ongoing narrative of his/her individual surgical techniques along with illustrations and diagrams to “personally” take the reader through the crucial steps of the procedure, and key points of patient care inherent to that topic. Additionally, where appropriate, links to online videos give the reader an up-front look into technical aspects of colorectal surgery.

Atlas of Virtual Colonoscopy

Colon Cancer Prevention

Inherited Cancer Syndromes

Colon Polyps and the Prevention of Colorectal Cancer

Lower Gastrointestinal Tract Surgery: Vol.1, Laparoscopic procedures

Rectal Cancer Treatment

It is fitting that the first book to be published on the new subject of virtual colonoscopy takes the form of an atlas with an abundance of

images. Radiologists approaching this exciting new technique for detecting colorectal neoplasms will rely on their traditional radiological knowledge gained from experience with several different tools, including computed tomography scanning, double contrast barium enema, computer image processing, and, of course, conventional colonoscopic findings. In many cases, the resulting blend of image information is entirely novel and radiologists will be faced with unfamiliar image artifacts as well as the problem of distinguishing stool from real lesions. This atlas will be of great value to those applying this new technique. In this volume, Abraham H. Dachman, MD, has persuaded most of the world's authorities pioneering virtual colonoscopy to contribute their cases as well as their insights. The material is effectively organized into a preliminary text section of clinical and research issues followed by a well-illustrated, high-quality collection of case images. It is of interest to note that most of the 2D images remain in black-and-white format, whereas the 3D images are often presented in color largely because the 3D software applications are commercial products and therefore more creatively formatted to resemble the pink/orange tint of human colonic mucosa.

This book reviews recent knowledge of the role of gut microbiome in health and disease. It covers extensive topics for several diseases, including metabolic-related diseases, allergies, gastrointestinal diseases, psychiatric diseases, and cancer, while also discussing therapeutic approaches by microbiota modification. Comprehensive and cutting-edge, Gut Microbiome-Related Diseases and Therapies deepens a reader's theoretical expertise in gut microbiome. Graduate and postdoctoral students, medical doctors, and biomedical researchers will benefit from this book.

This volume provides a comprehensive perspective on surgical oncologic diseases that are relevant to those who have an interest in surgical oncology. Its purpose is to distill a voluminous amount of information to readers so they will have the opportunity to apply relevant information and knowledge to their particular needs. Each chapter is written by experts in their field who provide concise and in-depth information on their topic and supply references to key articles. Illustrations, diagrams and photographs are included to assist the visual learners. Each chapter begins with bulleted key points to focus the readers on the material that will be covered and concludes with an appendix that summarizes the salient points. This unique set-up can be used as a tool to quickly review the topic at hand. The text also includes a set of short questions and answers at the end of each chapter to reinforce the salient points. Surgical Oncology: A Practical and Comprehensive Approach is a valuable resource for Medical students, surgical oncology fellows, general surgeons and educators.

This thoroughly revised and extended second edition of the book clearly explains the nature of colon polyps and their relationship to colorectal cancer in light of new developments. It discusses in detail new topics, including polyp development, risk factors and prevention measures, and also describes surgical, medical oncology and radiotherapy treatments of colon cancer. In cases of advanced colon cancer, it clearly demonstrates

how to perform surgical interventions in the presence of urinary tract metastases and gynecologic organ metastases. The book also includes chapters on medical treatment and radiotherapy in distant metastases of colorectal cancer. Further, it presents resection of liver metastases and transplantation options. Carefully examining the risk factors, and the treatment of colon cancer from the early to the advanced stages, the book is invaluable not only for medical specialists and students, but also for general readers and patients.

Handbook of Gastrointestinal Cancers

Diagnostic Imaging - IDKD Book

Colorectal Surgery Consultation

Cancer Prevention: The Causes and Prevention of Cancer —

A Practical and Comprehensive Approach

Rectal Cancer: New Insights for the Healthcare Professional: 2013 Edition

Colorectal cancer (CRC) is a major global health challenge as the third leading cause for cancer related mortalities worldwide. Despite advances in therapeutic strategies, the five-year survival rate for CRC patients has remained the same over time due to the fact that patients are often diagnosed in advanced metastatic stages. Drug resistance is another common reason for poor prognosis. Researchers are now developing advanced therapeutic strategies such as immunotherapy, targeted therapy, and combination nanotechnology for drug delivery. In addition, the identification of new biomarkers will potentiate early stage diagnosis. This book is the second of three volumes on recent developments in colorectal diagnosis and therapy. Each volume can be read on its own, or together. Each volume focuses on different novel therapeutic advances, biomarkers, and identifies therapeutic targets for treatment. Written by leading international experts in the field, coverage addresses the role of diet habits and lifestyle in reducing gastrointestinal disorders and incidence of CRC. Chapters discuss current and future diagnostic and therapeutic options for colorectal cancer patients, focusing on immunotherapeutics, nanomedicine, biomarkers, and dietary factors for the effective management of colon cancer.

Rectal Cancer: New Insights for the Healthcare Professional: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Genetics. The editors have built Rectal Cancer: New Insights for the Healthcare Professional: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Genetics in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Rectal Cancer: New Insights for the Healthcare Professional: 2013 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/>.

This book presents an Asian perspective on how the treatment of colorectal cancer can be optimized and standardized in ways that take into account technological advances and the trend towards individually tailored therapy. Readers will find careful, well-illustrated descriptions of the standard surgical techniques for rectal cancer and colon cancer that have contributed to recent improvements in 5-year survival rates in the Asia-Pacific region, where the incidence of colorectal cancer has been rising alarmingly due to lifestyle changes. The vital role now being played by minimally invasive laparoscopic and robotic options receives detailed scrutiny. Extent and timing of surgery, patient safety, risk of complications, and unresolved issues are all discussed. Furthermore, the use of surgery within the context of multimodal management including chemotherapy and radiotherapy is explained and an integrated approach for stage IV and recurrent disease is described. The book will serve as a valuable reference for young surgeons who are in training, experienced practitioners who want to enhance their knowledge and skills, and all others who wish to learn about this field.

This book provides essential didactic content for the SAGES University Masters Program Colorectal Surgery Curriculum. Surgeons seeking to complete the competency, proficiency, or mastery curriculum of the MASTERS Colorectal Pathway for a particular anchoring colorectal procedure will find relevant educational content in this SAGES Manual. Written by experts in the field, each chapter provides detailed guidance on preoperative and peri-procedural considerations for right and left elective and emergency colorectal resections, for both benign and malignant pathologies. Technical pearls and strategies to manage pitfalls and complications are also extensively reviewed along with detailed guidance for both laparoscopic and robotic procedures. The SAGES Manual of Colorectal Surgery provides a wealth of practical guidance to surgeons along their journey to progress from competency to mastery in various minimally invasive approaches to colorectal surgery.

***Theranostics Approaches to Gastric and Colon Cancer
Colorectal Cancer***

***Advances in Combined Modality Therapy Research and Application: 2013
Edition***

***The ASCRS Textbook of Colon and Rectal Surgery
A Comprehensive Review***

The Impact of Food Bioactives on Health

A Quick Guide to Cancer Epidemiology is an ideal addition to Springer Briefs in Cancer Research. The Brief provides core concepts in cancer epidemiology and also gives a snapshot of the epidemiology of seventeen human cancers. The Brief aims to provide-with quantitative focus-estimates of the global burden of neoplasms, of recent and likely future trends, distribution, causes and strategies for prevention for major groups of cancers. Finally, the Brief will give an overview of several factors that cause cancer including dietary factors, tobacco smoking, obesity and alcohol consumption.

Of the 8 million individuals living with cancer in the United States, up to 800,000 patients have a form of inherited cancer. Inherited cancer syndromes account for 5-10% of all cancers, as evidenced by recent advances in the understanding of such syndromes as

Familial Polyposis Syndromes (FAP), Hereditary Nonpolyposis Colon Cancer (HPNCC), and the BRCA1 and 2 breast cancer susceptibility genes. *Inherited Cancer Syndromes: Current Clinical Management* provides the clinician with a valuable tool for all aspects of patient care in inherited syndromes. Comprehensive, timely chapters present the fundamental principles of genetic counseling and testing, ethical issues, medical-legal issues, and clinical management principles. Chapters on inherited breast cancer, colon cancer, urologic malignancies, gynecologic malignancies, and MEN syndromes provide state-of-the-art information on hereditary risk identification, assessment and management, the role of the genetic counselor, providing optimal patient care, and the important research on the horizon - all written by an expert group of surgical and medical oncologists. *Inherited Cancer Syndromes: Current Clinical Management* is an important and timely book for surgical oncologists, medical oncologists, radiation oncologists, general surgeons, colorectal surgeons, trainees in surgery and oncology, and genetic counselors. Colorectal cancer has for more than two decades served as the paradigm for the multi-step concept of cancer initiation and progression. Perhaps more than any other organ site, cancer of the colon is extensively characterized at the molecular level. We are now entering a time when molecular classification, rather than histologic classification, of cancer subtypes is driving the development of clinical trials with emerging targeted therapies. The book will focus on the progression from the identification of mutations that drive colorectal cancer initiation and progression to the search for novel therapies to treat the disease.

The Eighth Annual Research Conference of the American Institute for Cancer Research, held in Washington, D.C., September 3-4, 1998, was on the subject "Colon Cancer Prevention: Dietary Modulation of Cellular and Molecular Mechanisms," with participants representing various disciplines interested in this area. One of the speakers provided an appropriate quote from 17th century physician Thomas Adams: "Prevention is better than healing because it saves the labor of being sick," which aptly describes the need for the prevention of cancer. An overview of normal and abnormal colonic development emphasized that although the typical human colon undergoes 10¹³ cell divisions by age 60, with the associated possibilities for error, relatively few colon tumors develop. Since dietary modulation leads to extremely small changes in colonic cells over a long period, animal models are useful to time, observe, and delineate the events associated with colon cancer. In the development of colon cancer, the inactivation of the adenomatous polyposis coli (Apc) gene is one of the earliest known events. Normally Apc downregulates the cellular protein beta-catenin, but this is lost during cancer development. Beta-catenin may itself be an oncogene; it has a short half-life, but it is stabilized by binding to its more prevalent in the cell nucleus, the gene shuttles between the nucleus and the cytoplasm.

The SAGES Manual of Colorectal Surgery

Hereditary Colorectal Cancer

Lower Gastrointestinal Tract Surgery

This book is based on the proceedings of a successful Boerhaave International Symposium on colorectal cancer held at the University of Leiden, 6-9 June, 1979. I would like to offer grateful thanks to the eminent clinicians and scientists who contributed both to the Symposium and to this book. Colorectal cancer is a very common form of malignancy, particularly in the Western world, and there have been a number of recent developments in the management of this

condition. This book has attempted to collate information on the current methods of investigation and treatment and I believe that it will prove valuable to all those interested in oncology. The contents range widely, covering the entire field from epidemiology through screening methods, diagnostic approaches and therapy of both primary and secondary disease. Perhaps the most outstanding new areas discussed and reflected in the proceedings are the possible range and scope of screening techniques, the new possibilities both in treatment and in endoscopic surgery now available as a result of developments in fibre-optic endoscopy, and new approaches and important parameters in staging of the disease.

Hereditary Nonpolyposis Colorectal Cancer: New Insights for the Healthcare Professional: 2013 Edition is a ScholarlyBrief™ that delivers timely, authoritative, comprehensive, and specialized information about Diagnosis and Screening in a concise format. The editors have built Hereditary Nonpolyposis Colorectal Cancer: New Insights for the Healthcare Professional: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Diagnosis and Screening in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Hereditary Nonpolyposis Colorectal Cancer: New Insights for the Healthcare Professional: 2013 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/>.

Colorectal cancer is the third most common cancer worldwide, and in many parts of the western world, it is the second leading cause of cancer-related deaths. This book covers colon cancer metastasis from the most fundamental aspects to clinical practice. Major topics include physiopathology, genetic and epigenetic controls, cancer initiating cells, epithelial-mesenchymal transition, growth factors and signalling, cell adhesion, natures of liver metastasis, angiogenesis and lymphangiogenesis, inflammatory response,

prognostic markers, sentinel node and staging, and finally diagnosis and treatment. Each chapter has been contributed by leaders in the field. A key feature is that it connects with a large readership including students, fundamentalists and clinicians. Another specific feature of the book is that the chapters are written in a didactic and illustrative fashion. These characteristics coupled with the choice of the topics and authors, makes this book a reference in the field. It represents an essential acquisition for medical libraries, clinicians as well as medical and graduate students.

This open access book deals with imaging of the abdomen and pelvis, an area that has seen considerable advances over the past several years, driven by clinical as well as technological developments. The respective chapters, written by internationally respected experts in their fields, focus on imaging diagnosis and interventional therapies in abdominal and pelvic disease; they cover all relevant imaging modalities, including magnetic resonance imaging, computed tomography, and positron emission tomography. As such, the book offers a comprehensive review of the state of the art in imaging of the abdomen and pelvis. It will be of interest to general radiologists, radiology residents, interventional radiologists, and clinicians from other specialties who want to update their knowledge in this area.