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are linked; Inflammation conditions that are linked to specific GI cancers; Bowel cancer; Barrett's esophagus and esophageal cancer; Viral infections and hepatocellular carcinomas; H. pylori infection and gastric cancer; Conclusion; References; Chapter 2 General Mechanisms of Inflammation Liwei Lu and Min Yang; Categories of inflammation; Inflammatory process; Initiation of inflammation Influx of leukocytes Effector mechanisms; Termination of inflammation and tissue repair; Regulatory mechanisms of inflammation; Conclusion; References; Chapter 3 Genetic and Epigenetic Alterations in Inflammation-Related Cancers - General Mechanisms of Cancers Yasuyuki Okamoto and Yutaka Kondo; Introduction; Signaling pathways; NF- B; STAT3; RAS; TNF- ; TAM; Genetic instability; Epigenetic alterations; DNA methylation; Histone modifications; Perspectives; References; Chapter 4 From Inflammation to Cancer: The Molecular Basis Hongchuan Jin; Inflammation and cancer: a brief overview of history Current model of tumorigenesis: interplay between tumor stem cells and tumor-permissive microenvironment Tumor microenvironment; Non-tumor cells in tumor microenvironment; Cancer-associated fibroblast (CAFs); Immune cells; Bioactive factors in tumor microenvironment; Chemokines; Growth factors; MMPs and TIMPs (tissue inhibitors of metalloproteinases); Other cytokines; Intracellular signaling pathways; NF- B (nuclear factor light chain polypeptide gene enhancer in B cells) pathway; STAT3 (signal transducer and activator of transcription 3) pathway; Conclusions; References Section II Models of Chronic Inflammation-Induced Cancers and Their Treatments Chapter 5 Advances in the Treatment of Helicobacter pylori Infection and Gastric Cancer Guy D. Eslick; Introduction; Treatment of Helicobacter pylori infection; Guidelines for the treatment of H. pylori; Alternative therapies for H. pylori infection; Treatment of gastric cancer; Future directions in gastric cancer treatment; Prevention of gastric cancer by treating H. pylori infection; Conclusions; Acknowledgments; Dedication; References Chapter 6 Inflammatory Bowel Disease and Colorectal Cancer and Their Treatment Crispin Corte and Rupert WL Leong Introduction; Epidemiology; Pathological characteristics; Risk of dysplasia; Colitis CRC surveillance guidelines; 1. Timing of commencement of surveillance; 2. Surveillance interval; 3. Techniques in surveillance for CRC; Dye-spray chromoendoscopy; Narrow band imaging; Fluorescence imaging; Confocal endomicroscopy; Management of dysplasia; 1. Endoscopic management of dysplasia; 1.1. Visualised lesions; 1.2. Flat lesions; 2. Chemoprophylaxis; 2.1. 5-Aminosalicylic acid 2.2. Ursodeoxycholic acid

Sommario/riassunto

Inflammation and cancer are two major disorders that cause huge concerns in our society. However, what one may not know is that both diseases are closely associated and, in particular, both occur in the gastrointestinal tract and liver. This book describes the mechanics of how inflammation can progress to cancer in these organs. The authors in this book comprehensively discuss the different biomarkers for early diagnosis, and current therapeutic treatments for these diseases. All of these would allow us to better understand the pathogenesis of both diseases. As such, this book provides compreh
