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Altri autori (Persone)	ChoC.-H (Chi-Hin) YuJun
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	About the Editors; Foreword; List of Main Contributors; Contents; Section I Inflammation and Cancer; Chapter 1 General Introduction Chung Wah Wu and Jun Yu; Introduction; How inflammation and cancer 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 leukocytesEffector 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- κ 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

2. Record Nr.	UNISA996211341803316
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ISSN	1867-6944
Descrizione fisica	1 online resource
Disciplina	620.1
Soggetti	Structural analysis (Engineering) Strength of materials Mechanics, Applied Théorie des constructions Résistance des matériaux Mécanique appliquée Periodicals.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Refereed/Peer-reviewed
Sommario/riassunto	This journal presents recent and creative advances dealing with any aspect of mechanics of materials and structures. It features original papers dealing with mechanical, mathematical, numerical and experimental analysis of structures and structural materials, both taken in the broadest sense. Annals of Solid and Structural Mechanics covers multi-scale, multi-field and multiple-media problems, including static and dynamic interaction. It also illustrates advanced and innovative applications to structural problems from science and engineering, including aerospace, civil, materials, mechanical engineering and living materials and structures. In addition, the journal includes special issues on specific topics as well as book reviews