



# From Inflammation to Cancer:Advances in Diagnosis and Therapy for Gastrointestinal and Hepatological Diseases

*Chi Hin Cho, Jun Yu*

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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 comprehensive information concerning the interrelationship between inflammation and cancer in a cohesive manner, and the information derived would benefit not only basic scientists but also clinicians who are working in these fields.

### Contents:

#### • *Inflammation and Cancer:*

- General Introduction (*Chung Wah Wu and Jun Yu*)
- General Mechanisms of Inflammation (*Liwei Lu and Min Yang*)
- Genetic and Epigenetic Alterations in Inflammation-Related Cancers — General Mechanisms of Cancers (*Yasuyuki Okamoto and Yutaka Kondo*)
- From Inflammation to Cancer: The Molecular Basis (*Hongchuan Jin*)

#### • *Models of Chronic Inflammation-Induced Cancers and Their Treatments:*

- Advances in the Treatment of *Helicobacter pylori* Infection and Gastric Cancer (*Guy D Eslick*)
- Inflammatory Bowel Disease and Colorectal Cancer and Their Treatment (*Crispin Corte and Rupert WL Leong*)
- Hepatitis B and Hepatocellular Carcinoma and Their Treatment (*Chi-Jen Chu, Teh-Ia Huo and Shou-Dong Lee*)
- Hepatitis C and Hepatocellular Carcinoma: Implications for Pathogenesis and Treatment (*Geoffrey C Farrell*)
- Advances in the Interventional Therapies for Hepatocellular Carcinoma (*Carmen Chi Min Cho, Joyce Wai Yi Hui and Simon Chun Ho Yu*)

#### • *Mediators in Chronic Inflammation and Cancers:*

- Exploration of Cytokine Signaling in Clinical Management of Hepatocellular Carcinoma (*Xuelian Zhao and Xin Wei Wang*)
- Role of Nuclear Factor-κB Pathway in Gastrointestinal Inflammation and Cancer (*Muthu K Shanmugam, Nadine Upton, Gautam Sethi and WS Fred Wong*)
- Novel Mediators for Chronic Inflammation and Oncogenic Transformation: Tumor Necrosis Factor (TNF)-α (*Naofumi Mukaida and Boryana K Popivanova*)
- Peroxisome Proliferator Activated Receptor-γ (PPARγ): Roles in Chronic Inflammation and Intestinal Oncogenic Transformation (*Ioannis A Voutsadakis*)
- Proteinase-Activated Receptors (*Hongying Wang*)

#### • *Molecular Markers of Cancers and Their Clinical Implications:*

- Use of Tumor Markers in the Detection and Management of Patients with Colorectal Cancer (*Michael J Duffy*)

- Genetic Biomarkers for the Diagnosis and Prognosis of Hepatocellular Carcinoma (*John M Luk, Angela M Liu, Kwong-Fai Wong and Ronnie T P Poon*)

- **Summary:**

- Current Therapy and Future Perspectives for Inflammation-Associated Cancer (*L Zhang and C H Cho*)

**Readership:** Both basic and clinical researchers in a variety of fields including cancer, gastroenterology, hepatology, pathology, pharmacology and radiology.

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#### **James Shafer:**

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