CONTENTS

Preface ........................................................................................................................ ...... v
Contributors................................................................................................................... ix

PART I. HISTORICAL PERSPECTIVES

1 Dietary Fatty Acids, COX-2 Blockade, and Carcinogenesis .......... 3
   Rashida A. Karmali

2 Historical Aspects of COX-2: Cloning and Characterization of the cDNA, Protein and Gene ...................................................... 13
   Harvey R. Herschman

PART II. EPIDEMIOLOGY OF NSAIDS AND CANCER

3 Epidemiology of Nonsteroidal Anti-Inflammatory Drugs and Colorectal Cancer ................................................................. 35
   Michael J. Thun and S. Jane Henley

4 Epidemiology of Breast Cancer and Nonsteroidal Anti-Inflammatory Drugs: Extension of the Dietary Fat Hypothesis of Breast Cancer ...................................................... 57
   Randall E. Harris

PART III. ANIMAL MODELS OF CARCINOGENESIS

5 Role of Synthetic and Naturally Occurring Cyclooxygenase Inhibitors in Colon Cancer Prevention .................................................. 71
   Bandaru S. Reddy and Chinthalapally V. Rao

6 Chemoprevention of Breast Cancer by Nonsteroidal Anti-Inflammatory Drugs and Selective COX-2 Blockade in Animals ................................................................. 85
   Hussein M. Abou-Issa, Galal A. Alshafie, and Randall E. Harris

7 The Role of Cyclooxygenase-2 in the Prevention and Therapy of Lung Cancer ................................................................. 99
   Hildegard M. Schuller

8 Nonsteroidal Anti-Inflammatory Drugs, Prostaglandins, and Apc-Driven Intestinal Tumorigenesis .............................................. 117
   Jay Whelan and Michael F. McEntee

9 Cyclooxygenase-1 and Cyclooxygenase-2 Knockout Mice Provide Insights into Beneficial and Adverse Effects of Nonsteroidal Anti-Inflammatory Drugs ................................ 147
   Robert Langenbach

PART IV. MOLECULAR BIOLOGY OF COX-2

10 Cyclooxygenase-2, Prostaglandins, and Colorectal Carcinogenesis ................................................................. 159
   Rajnish A. Gupta and Raymond N. DuBois
COX-2 Blockade in Cancer Prevention and Therapy
Harris, R.E. (Ed.)
2003, X, 371 p., Hardcover
ISBN: 978-1-58829-010-6
A product of Humana Press