

# Contents

<b>Foreword by Barry Marshall</b> .....	v
<b>Preface</b> .....	ix
<b>Contributors</b> .....	xv
<b>Editors' Biographies</b> .....	xix
<b>1 Overview and Pathology of Gastric Cancer</b> .....	1
Pelayo Correa, M. Constanza Camargo, and M. Blanca Piazzuelo	
<b>2 Epidemiology of Gastric Cancer and <i>Helicobacter pylori</i></b> .....	25
Jonathan Volk and Julie Parsonnet	
<b>3 Diet and Gastric Cancer</b> .....	59
Chun Liu, Xiang-Dong Wang, and Robert M. Russell	
<b>4 MALT Lymphoma: Clinicopathologic Features and Molecular Pathogenesis</b> .....	91
Anne Müller	
<b>5 Gastrointestinal Stromal Tumors of Gastric Origin</b> .....	135
Chandrajit P. Raut, Jason L. Hornick, and Monica M. Bertagnolli	
<b>6 Human Gastric Neuroendocrine Neoplasia: Current Pathologic Status</b> .....	165
Guido Rindi and Enrico Solcia	
<b>7 Gastric Neuroendocrine Neoplasia</b> .....	185
Irvin M. Modlin, Mark Kidd, Maximillian V. Malfertheiner, and Bjorn I. Gustafsson	

<b>8</b>	<b>Epstein-Barr Virus and Gastric Cancer</b> .....	217
	Ming-Shiang Wu, Chia-Tung Shun, and Jaw-Town Lin	
<b>9</b>	<b>Role of Host Genetic Susceptibility in the Pathogenesis of Gastric Cancer</b> .....	235
	Emad M. El-Omar	
<b>10</b>	<b>Cancer Genetics of Human Gastric Adenocarcinoma</b> .....	251
	Roman Galysh, Jr. and Steven M. Powell	
<b>11</b>	<b>Genomic and Proteomic Advances in Gastric Cancer</b> .....	285
	Alex Boussioutas and Patrick Tan	
<b>12</b>	<b>Animal Models of Gastric Carcinoma</b> .....	323
	Arlin B. Rogers and James G. Fox	
<b>13</b>	<b>Insights into the Development of Preneoplastic Metaplasia: Spasmolytic Polypeptide-Expressing Metaplasia and Oxyntic Atrophy</b> .....	361
	James R. Goldenring and Sachiyo Nomura	
<b>14</b>	<b>Deregulation of E-Cadherin in Precancerous Lesions and Gastric Cancer</b> .....	377
	Annie On On Chan and Benjamin Chun-Yu Wong	
<b>15</b>	<b>Role of CagA in <i>Helicobacter pylori</i> Infection and Pathology</b> .....	389
	Takeshi Azuma	
<b>16</b>	<b>The Role of <i>Helicobacter pylori</i> Virulence Factors in Rodent and Primate Models of Disease</b> .....	403
	Dawn A. Israel and Richard M. Peek, Jr.	
<b>17</b>	<b>Host Immunity in the Development of Gastric Preneoplasia</b> .....	425
	Peter B. Ernst, Mohammad S. Alam, Asima Bhattacharyya, and Sheila E. Crowe	
<b>18</b>	<b>Atrophy and Altered Mesenchymal–Epithelial Signaling Preceding Gastric Cancer</b> .....	449
	Juanita L. Merchant and Yana Zavros	
<b>19</b>	<b>Genetic Models of Gastric Cancer in the Mouse</b> .....	483
	Andrew S. Giraud and Louise M. Judd	

Contents	xiii
<b>20 Prostaglandin and Transforming Growth Factor <math>\beta</math> Signaling in Gastric Cancer</b> .....	513
Masanobu Oshima, Hiroko Oshima, and Makoto Mark Taketo	
<b>21 REG Proteins and Other Growth Factors in Gastric Cancer</b> .....	541
Hirokazu Fukui, Yoshikazu Kinoshita, and Tsutomu Chiba	
<b>22 Role of Bone Marrow–Derived Cells in Gastric Adenocarcinoma</b> .....	561
JeanMarie Houghton and Timothy C. Wang	
<b>23 Stromal Cells and Tumor Microenvironment</b> .....	587
Andrea Varro	
<b>24 Future Prospects for <i>Helicobacter pylori</i> Vaccination</b> .....	601
Dominique Velin and Pierre Michetti	
<b>Index</b> .....	621