

Contents

Part I General Information

1 The Syrian Hamster as an Experimental Animal	3
Yoshitsugu Tajima	
2 Surgical Instruments.....	11
Taiichiro Kosaka, Takehiro Mishima, and Tomohiko Adachi	
3 Anesthesia of the Laboratory Hamster	17
Takehiro Mishima, Tomohiko Adachi, and Taiichiro Kosaka	
4 Fundamental Surgical Techniques.....	21
Tomohiko Adachi, Taiichiro Kosaka, and Takehiro Mishima	

Part II Experimental Carcinogenesis in the Hamster

5 Hamster Models of Biliary Carcinoma	29
Yoshitsugu Tajima, Tomoo Kitajima, Tsutomu Tomioka, Toshifumi Eto, Keiji Inoue, Tomohiro Fukahori, Makoto Sasaki, and Tsukasa Tsunoda	
A. Pancreaticobiliary Maljunction Model	
B. Biliary Reconstruction Models	
6 Biliary Carcinomas Induced in the Hamster.....	69
Yoshitsugu Tajima, Shizuo Yamanaka, Sumihiro Matsuzaki, Toshifumi Eto, Kazuya Okada, Hiroshi Shiku, Tsutomu Tomioka, Tsukasa Tsunoda, and Takashi Kanematsu	
A. Morphological Characteristics and Pathogenesis of Induced Biliary Carcinoma	
B. Genetic Alterations During Biliary Carcinogenesis	

7 Biliary Inflammation and Biliary Carcinogenesis	95
Tomoo Kitajima, Yoshitsugu Tajima, Kei Matsuo, Tamotsu Kuroki, Shinya Onizuka, Yoshito Ikematsu, Sumihiro Matsuzaki, and Takashi Kanematsu	
8 Spontaneous Biliary Carcinogenesis	105
Tomoo Kitajima, Sumihiro Matsuzaki, Tamotsu Kuroki, Kenzo Fukuda, Yoshitsugu Tajima, and Takashi Kanematsu	
9 Modification of Biliary Carcinogenesis.....	115
Yoshito Ikematsu, Tsutomu Tomioka, Tsukasa Tsunoda, Yoshitsugu Tajima, and Takashi Kanematsu A. Cholecystokinin and Cholecystokinin-Receptor Antagonist B. Cholecystoduodenostomy and Cholecystoileostomy C. Bile Acids and Their Absorbents	
10 Chemoprevention of Biliary Carcinogenesis	139
Noritsugu Tsuneoka, Tamotsu Kuroki, Tomoo Kitajima, Kenzo Fukuda, Shinya Onizuka, Yoshitsugu Tajima, and Takashi Kanematsu A. Cyclooxygenase-2-specific Inhibitor B. Hochu-ekki-to (TJ-41)	
11 Hamster Model of an Intraductal Papillary Mucinous Neoplasm (IPMN) of the Pancreas	157
Tomohiko Adachi, Yoshitsugu Tajima, Amane Kitasato, Noritsugu Tsuneoka, Ryuji Tsutsumi, Tamotsu Kuroki, and Takashi Kanematsu	
12 Chemoprevention of Pancreatic Carcinogenesis.....	171
Tomohiko Adachi, Yoshitsugu Tajima, Tamotsu Kuroki, Takehiro Mishima, Amane Kitasato, Noritsugu Tsuneoka, and Takashi Kanematsu	
Part III Cancer Lines and Biliary Epithelial Cell Lines	
13 Establishment of Transplantable Biliary Cancer Lines	185
Tomohiro Fukahori, Keiji Inoue, Tsutomu Tomioka, Yoshitsugu Tajima, Tsukasa Tsunoda, and Takashi Kanematsu A. Cancer Line from Gallbladder Carcinoma B. Cancer Line from Intrahepatic Bile Duct Carcinoma	
14 Establishment of Biliary Epithelial Cell Lines from the Hamster	213
Takayuki Asakawa, Amane Kitasato, Tsutomu Tomioka, Tamotsu Kuroki, Ryuji Tsutsumi, Yoshitsugu Tajima, and Takashi Kanematsu A. Isolation, Culture and Transplantation of Biliary Epithelial Cells B. Inflammatory Cytokines and Biliary Carcinogenesis	
Index.....	237

Hepatobiliary and Pancreatic Carcinogenesis in the
Hamster

Tajima, Y.; Kuroki, T.; Kanematsu, T. (Eds.)

2009, XI, 241 p. 97 illus., 59 illus. in color., Hardcover

ISBN: 978-4-431-87772-1