

Table of Contents

The Liver	1
<i>Anatomy, Histology, and Ultrastructure</i>	3
Embryology, Anatomy, Histology, and Ultrastructure of the Liver, Rat C. F. HOLLANDER, A. M. DE LEEUW, and M. J. VAN ZWIETEN	3
<i>Neoplasms</i>	10
Foci of Altered Hepatocytes, Rat P. BANNASCH, H. ZERBAN, and H. J. HACKER	10
Histochemical Characteristics of Foci Induced by Diethylnitrosamine, Liver, Mouse S. D. VESSELINOVITCH, H. J. HACKER, and P. BANNASCH	31
Hepatocellular Carcinoma, Liver, Rat J. A. POPP	39
Hepatocellular Adenoma, Liver, Rat P. N. BROOKS and F. J. C. ROE	47
Cholangiofibroma and Cholangiocarcinoma, Liver, Rat P. BANNASCH, U. BENNER, and H. ZERBAN	52
Cholangioma, Liver, Rat P. N. BROOKS and F. J. C. ROE	66
Hemangiosarcoma, Liver, Rat J. A. POPP	69
Hemangioma, Liver, Rat P. N. BROOKS and F. J. C. ROE	71
Kupffer's Cell Sarcoma, Liver, Rat J. A. POPP	73
Focal Carcinoma in Hepatocellular Adenoma, Liver, Mouse J. M. WARD	76
Hyperplasia, Adenoma, Gallbladder, Hamster T. MAKINO and Y. KONISHI	79
<i>Nonneoplastic Lesions</i>	83
Polyploidy, Liver, Rat M. J. VAN ZWIETEN and C. F. HOLLANDER	83
Intranuclear and Intracytoplasmic Inclusions, Liver, Rat M. J. VAN ZWIETEN and C. F. HOLLANDER	86
Intranuclear and Intracytoplasmic Inclusions in Normal and Neoplastic Hepatocytes, Mouse K. TOTH and J. SUGÁR	92

Extramedullary Hematopoiesis, Liver, Rat M.J.VAN ZWIETEN and C.F.HOLLANDER	97
Nutritional Fatty Liver and Cirrhosis, Rat, Mouse P.M.NEWBERNE and A.E.ROGERS	100
Cirrhosis, Mouse J.M.WARD	107
Peliosis Hepatis, Rodents P.BANNASCH, K.WAYSS, and H.ZERBAN	110
Spongiosis Hepatis, Rat P.BANNASCH, H.ZERBAN, and H.-J.FÜGEL	116
Hyperplasia, Diffuse, Following Partial Hepatectomy, Mouse J.M.WARD	123
Oval Cell Hyperplasia, Liver, Mouse, Rat K.L.HOOVER	125
Herniation of Liver Through Esophageal Hiatus, Rat M.J.VAN ZWIETEN and C.F.HOLLANDER	127
<i>Viral Infections</i>	131
K Virus Infection, Liver, Mouse J.E.GREENLEE	131
Mouse Hepatitis Virus Infection, Liver, Mouse S.W.BARTHOLD	134
Rat Parvovirus Infection, Liver R.O.JACOBY	139
Mousepox, Liver, Mouse R.O.JACOBY	145
Reovirus Type 3 Infection, Liver, Mouse S.W.BARTHOLD	151
<i>Bacterial Infections</i>	156
Tyzzer's Disease, Liver, Mouse, Rat, Hamster J.R.GANAWAY	156
<i>Corynebacterium Kutscheri</i> Infection, Liver, Mouse and Rat S.W.BARTHOLD	166
Salmonellosis, Liver, Mouse, Rat, Hamster J.R.GANAWAY	170
The Salivary Glands	175
Histology and Ultrastructure, Salivary Glands, Mouse C.H.FRITH and J.W.TOWNSEND	177
<i>Neoplasms</i>	185
Myoepithelioma, Salivary Glands, Mouse G.T.BURGER, C.H.FRITH, and J.W.TOWNSEND	185

Adenoma, Adenocarcinoma, Salivary Gland, Mouse C. H. FRITH and J. E. HEATH	190
Polyoma Virus Infection, Salivary Glands, Mouse S. W. BARTHOLD	193
<i>Nonneoplastic Lesions</i>	197
Cytomegalovirus Infection, Salivary Glands, Mouse, Rat, Hamster S. W. BARTHOLD	197
Sialodacryoadenitis (SDA) Infection, Rat R. O. JACOBY	201
The Exocrine Pancreas	207
<i>Histology and Ultrastructure</i>	209
Embryology, Histology, and Ultrastructure of the Exocrine Pancreas S. L. EUSTIS and G. A. BOORMAN	209
<i>Neoplasms</i>	219
Acinar-Cell Carcinoma, Pancreas, Rat G. A. BOORMAN and S. L. EUSTIS	219
Experimental Carcinogenesis of Exocrine Pancreas: Animal Models, Neoplasms, and Current Understanding of Pathogenesis D. G. SCARPELLI, M. S. RAO, and J. K. REDDY	224
<i>Nonneoplastic Lesions</i>	239
Atrophy, Exocrine Pancreas, Rat G. A. BOORMAN and S. L. EUSTIS	239
Exocrine Pancreas of Hypophysectomized Rats Y. MURATA, Y. YOKOSE, and Y. KONISHI	245
Necrotizing Pancreatitis Induced by 4-HAQO, Rat Y. YOKOSE, K. OKAMURA, and Y. KONISHI	249
The Gastrointestinal Tract	253
<i>1. Oral Cavity</i>	253
Squamous Cell Carcinoma, Tongue, Rat R. J. KOCIBA and D. G. KEYES	255
<i>2. Esophagus</i>	261
<i>Neoplasms</i>	263
Squamous Cell Papilloma, Esophagus, Rat M. Y. OVELAR and A. CARDESA	263
Carcinoma In Situ, Esophagus, Rat A. CARDESA and M. Y. OVELAR	265

Squamous Cell Carcinoma, Esophagus, Rat A. CARDESA and M. Y. OVELAR	268
Papilloma and Squamous Cell Carcinoma, Esophagus, Rat (Zinc Deficiency, Alcohol, and Methylbenzyl nitrosamine) P. M. NEWBERNE	272
3. Stomach	279
Anatomy, Histology, Ultrastructure, Stomach, Rat N. MATSUKURA, A. SHIROTA, and G. ASANO	281
<i>Neoplasms</i>	<i>289</i>
Papilloma, Forestomach, Rat S. FUKUSHIMA and N. ITO	289
Squamous Cell Carcinoma, Forestomach, Rat S. FUKUSHIMA and N. ITO	292
Adenoma, Stomach, Rat M. TAKAHASHI	296
Adenocarcinoma, Glandular Stomach, Rat Z. SZENTIRMAY and J. SUGAR	301
Leiomyoma and Leiomyosarcoma, Stomach, Rat M. TAKAHASHI	310
4. Small Intestines	315
<i>Viral Infections</i>	<i>317</i>
Mouse Hepatitis Virus Infection, Intestine, Mouse S. W. BARTHOLD	317
Murine Rotavirus Infection, Intestine, Mouse S. W. BARTHOLD	321
Adenovirus Infection, Intestine, Mouse S. W. BARTHOLD	325
K Virus Infection, Intestine, Mouse J. E. GREENLEE	328
<i>Bacterial Infections</i>	<i>330</i>
Tyzzler's Disease, Intestine, Mouse, Rat, Hamster J. R. GANAWAY	330
Salmonellosis, Intestine, Mouse, Rat, Hamster J. R. GANAWAY	333
<i>Citrobacter freundii</i> Infection, Colon, Mouse S. W. BARTHOLD	337
Clostridial Enteropathies, Hamster J. E. REHG	340
Transmissible Ileal Hyperplasia, Hamster R. O. JACOBY	346

<i>Helminth and Protozoal Infections</i>	356
<i>Spironucleus Muris</i> Infection, Intestine, Mouse, Rat, Hamster S. W. BARTHOLD	356
<i>Giardia Muris</i> Infection, Intestine, Mouse, Rat, Hamster S. W. BARTHOLD	359
<i>5. Large Intestine</i>	363
<i>Neoplasms</i>	365
Adenocarcinoma, Colon and Rectum, Rat P. M. NEWBERNE and A. E. ROGERS	365
<i>Subject Index</i>	371