

Contents

List of abbreviations	ix	Rare and salivary gland-type tumours	139
Foreword	x	Introduction	139
TNM staging of carcinomas of the breast	1	Acinic cell carcinoma	142
1 Introduction to tumours of the breast	5	Adenoid cystic carcinoma	146
2 Epithelial tumours of the breast	9	Secretory carcinoma	146
WHO classification of epithelial tumours of the breast	10	Mucoepidermoid carcinoma	149
Benign epithelial proliferations and precursors	11	Polymorphous adenocarcinoma	151
Introduction	13	Tall cell carcinoma with reversed polarity	153
Usual ductal hyperplasia	15	Neuroendocrine neoplasms	155
Columnar cell lesions, including flat epithelial atypia	18	Introduction	155
Atypical ductal hyperplasia	22	Neuroendocrine tumour	156
Adenosis and benign sclerosing lesions	22	Neuroendocrine carcinoma	159
Introduction	22	3 Fibroepithelial tumours and hamartomas of the breast	163
Sclerosing adenosis	25	WHO classification of fibroepithelial tumours and	164
Apocrine adenosis and adenoma	25	hamartomas of the breast	165
Microglandular adenosis	28	Introduction	165
Radial scar / complex sclerosing lesion	30	Hamartoma	166
Adenomas	32	Fibroadenoma	168
Introduction	32	Phyllodes tumour	172
Tubular adenoma	35	4 Tumours of the nipple	177
Lactating adenoma	37	WHO classification of tumours of the nipple	178
Ductal adenoma	39	Introduction	179
Epithelial-myoepithelial tumours	40	Epithelial tumours	
Introduction	43	Syringomatous tumour	180
Pleomorphic adenoma	46	Nipple adenoma	182
Adenomyoepithelioma	49	Paget disease of the breast	184
Malignant adenomyoepithelioma	52	5 Mesenchymal tumours of the breast	187
Papillary neoplasms	57	WHO classification of mesenchymal tumours of the breast	188
Introduction	60	Introduction	189
Intraductal papilloma	63	Vascular tumours	
Papillary ductal carcinoma <i>in situ</i>	66	Haemangioma	191
Encapsulated papillary carcinoma	68	Angiomatosis	193
Solid papillary carcinoma (<i>in situ</i> and invasive)	68	Atypical vascular lesions	195
Invasive papillary carcinoma	71	Postradiation angiosarcoma of the breast	197
Non-invasive lobular neoplasia	75	Primary angiosarcoma of the breast	200
Introduction	76	Fibroblastic and myofibroblastic tumours	
Atypical lobular hyperplasia	82	Nodular fasciitis	202
Lobular carcinoma <i>in situ</i>	102	Myofibroblastoma	204
Ductal carcinoma <i>in situ</i>	110	Desmoid fibromatosis	206
Introduction	114	Inflammatory myofibroblastic tumour	209
Ductal carcinoma <i>in situ</i>	119	Peripheral nerve sheath tumours	
Invasive breast carcinoma	121	Schwannoma	211
General overview	123	Neurofibroma	213
Invasive breast carcinoma of no special type	126	Granular cell tumour	215
Microinvasive carcinoma	128	Smooth muscle tumours	
Invasive lobular carcinoma	131	Leiomyoma	217
Tubular carcinoma	131	Leiomyosarcoma	219
Cribiform carcinoma	134	Adipocytic tumours	
Mucinous carcinoma		Lipoma	221
Mucinous cystadenocarcinoma		Angiolipoma	223
Invasive micropapillary carcinoma		Liposarcoma	225
Carcinoma with apocrine differentiation		Other mesenchymal tumours and tumour-like conditions	
Metaplastic carcinoma		Pseudoangiomatous stromal hyperplasia	228

6 Haematolymphoid tumours of the breast	231	9 Genetic tumour syndromes of the breast	267
WHO classification of haematolymphoid tumours of the breast	232	Introduction	268
Introduction	233	<i>BRCA1/2-associated hereditary breast and ovarian cancer syndrome</i>	270
Lymphoma		Cowden syndrome	275
Extranodal marginal zone lymphoma of mucosa-associated lymphoid tissue (MALT lymphoma)	235	Ataxia-telangiectasia	277
Follicular lymphoma	238	Li-Fraumeni syndrome, <i>TP53</i> -associated	279
Diffuse large B-cell lymphoma	240	Li-Fraumeni syndrome, <i>CHEK2</i> -associated	282
Burkitt lymphoma	242	<i>CDH1</i> -associated breast cancer	284
Breast implant-associated anaplastic large cell lymphoma	245	<i>PALB2</i> -associated cancers	286
		Peutz-Jeghers syndrome	288
		Neurofibromatosis type 1	290
		The polygenic component of breast cancer susceptibility	292
7 Tumours of the male breast	249	Contributors	299
WHO classification of tumours of the male breast	250	Declaration of interests	305
Introduction	251	IARC/WHO Committee for ICD-O	306
Epithelial tumours		Sources	307
Gynaecomastia	252	References	311
Carcinoma in situ	255	Subject index	349
Invasive carcinoma	257	Previous volumes in the series	356
8 Metastases to the breast	261		