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For research use only

Specifications:

- No. of cases: 45
- Tissue type: Normal tissues, more than single spots
- No. of spots: 2 spots from each normal case (90 spots)
- Total spots: 90
- Corresponding normal tissues with cancers:
- Diameter: 1.0 mm

Documents:

- Product specification: layout, summary of tissue spots
- H&E stained images
- Detailed pathological information

Layout:

	1	2	3	4	5	6	7	8	9	10
	CEREBRAL CORTEX	CEREBELLUM	BRAIN GLIOMA				PROSTATE	TESTIS		
A										
	HIPPOCAMPUS	HEART	SPLEEN				EXOCERVIX	ENDOCERVIX		
B										
	LYMPH NODE	THYMUS	TONGUE				PRO-ENDOMETRIUM	SEC-ENDOMETRIUM		
C										
	SKELETAL MUSCLE	TOESIL	PAROTID GLAND				MYOMETRIUM	UMBILICAL CORD		
D										
	URETER	SOFT TISSUE	LUNG				OVARY	FALLOPIAN TUBE		
E										
	LIVER	BREAST	BRONCHUS				PLACENTA AMNION	PLACENTA CHORION		
F										
	ESOPHAGUS	STOMACH	SPINAL CORD				PLACENTA BASAL	EYE		
G										
	PANCREAS	ILEUM	CECUM				KIDNEY CORTEX	KIDNEY MEDULLA		
H										
	COLON	RECTUM	GALL BLADDER				ADRENAL GLAND	SKIN		
I										

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Summary of tissue spots

No	Coordinate	Sex	Age	Key word	
1	A	1,2	m	64	Cerebral cortex: non-neoplastic
2		3,4	m	64	Cerebellum: non-neoplastic
3		5,6	m	64	Basal ganglia: non-neoplastic
4		7,8	m	59	Prostate: non-neoplastic
5		9,10	m	0	Testis: non-neoplastic
6	B	1,2	m	64	Hippocampus: non-neoplastic
7		3,4	m	64	Hheart: non-neoplastic
8		5,6	m	52	Spleen: non-neoplastic
9		7,8	f	59	Exocervix: non-neoplastic
10		9,10	m	59	Endocervix: non-neoplastic
11	C	1,2	f	74	Lymph node: non-neoplastic
12		3,4	m	0	Thymus: non-neoplastic
13		5,6	m	52	Tongue: non-neoplastic
14		7,8	f	45	Pro-endometrium: non-neoplastic
15		9,10	f	44	Sec-endometrium: non-neoplastic
16	D	1,2	m	0	Skeletal muscle: non-neoplastic
17		3,4	m	18	Tonsil: non-neoplastic
18		5,6	f	20	Paratoid gland: non-neoplastic
19		7,8	f	48	Myometrium: non-neoplastic
20		9,10	f	38	Umbilical cord: non-neoplastic
21	E	1,2	m	64	Ureter: non-neoplastic
22		3,4	m	70	Soft tissue: non-neoplastic
23		5,6	m	52	Lung: non-neoplastic
24		7,8	f	15	Ovary: non-neoplastic
25		9,10	f	48	Fallopian tube: non-neoplastic
26	F	1,2	m	52	Liver: non-neoplastic
27		3,4	f	46	Breast: non-neoplastic
28		5,6	m	0	Bronchus: non-neoplastic
29		7,8	f	34	Placenta amnion: non-neoplastic
30		9,10	f	34	Placenta chorionvilli: non-neoplastic
31	G	1,2	m	53	Esophagus: non-neoplastic
32		3,4	f	65	Stomach: non-neoplastic
33		5,6	m	0	Spinal cord: non-neoplastic
34		7,8	f	34	Placenta basal plate: non-neoplastic
35		9,10	f	0	Eye: non-neoplastic

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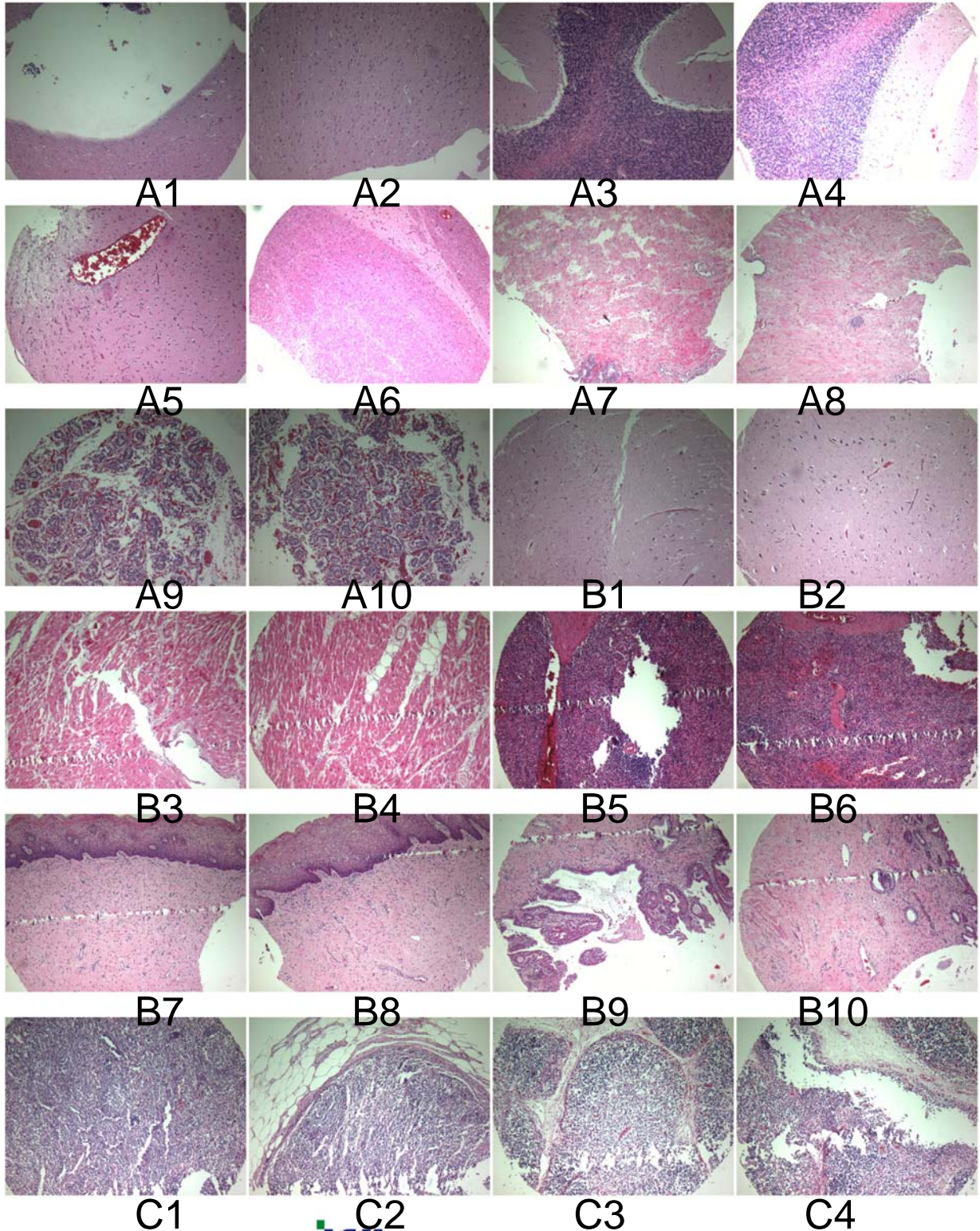
Summary of tissue spots

No	Coordinate	Sex	Age	Key word
36	1,2	f	52	Pancreas: non-neoplastic
37	3,4	m	65	Ileum: non-neoplastic
38	5,6	m	46	Cecum: non-neoplastic
39	7,8	m	42	Kidney cortex: non-neoplastic
40	9,10	m	42	Kidney medulla: non-neoplastic
41	1,2	m	60	Colon: non-neoplastic
42	3,4	m	44	Rectum: non-neoplastic
43	5,6	m	0	Gall bladder: non-neoplastic
44	7,8	f	31	Adrenal gland: non-neoplastic
45	9,10	m	55	Skin: non-neoplastic

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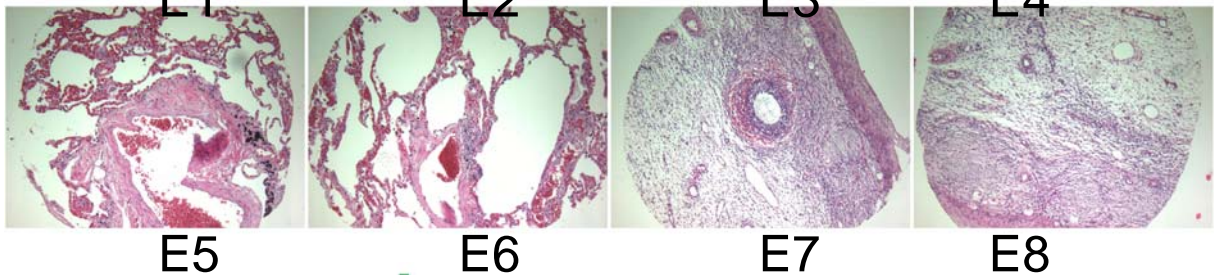
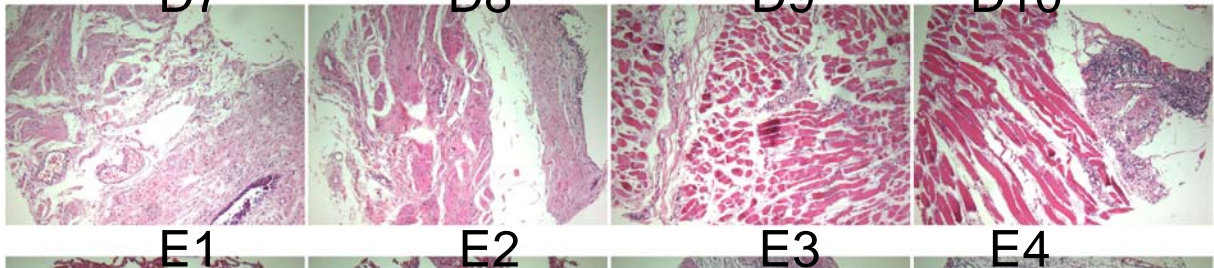
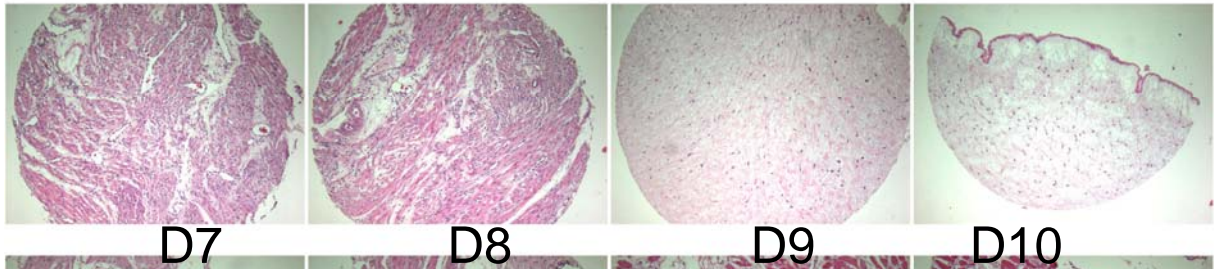
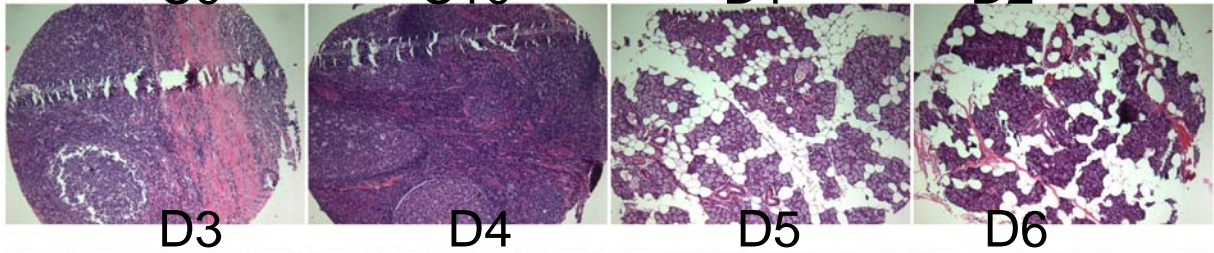
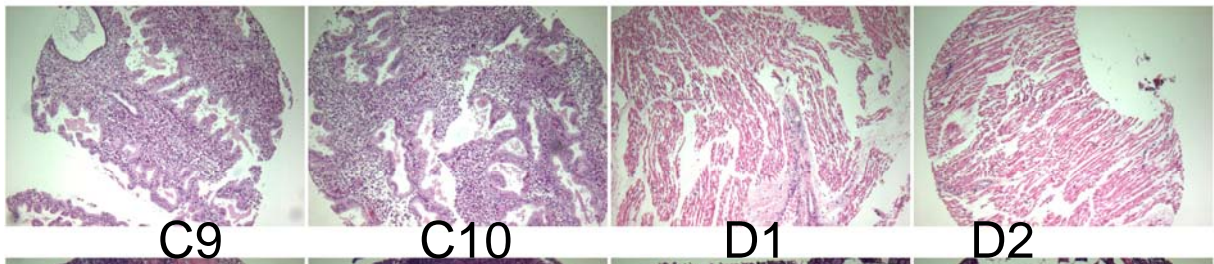
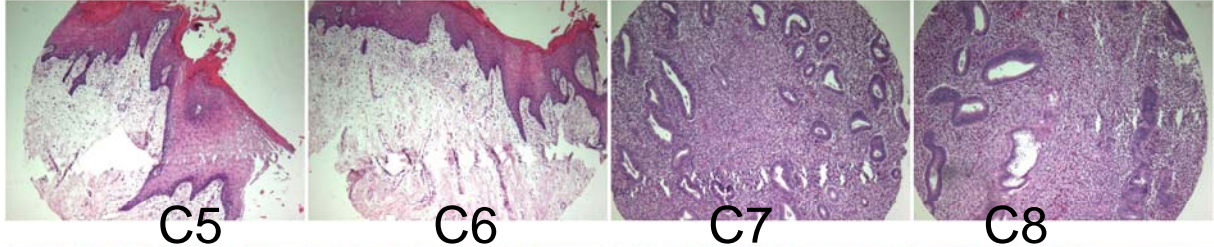
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Hematoxylin and Eosin staining



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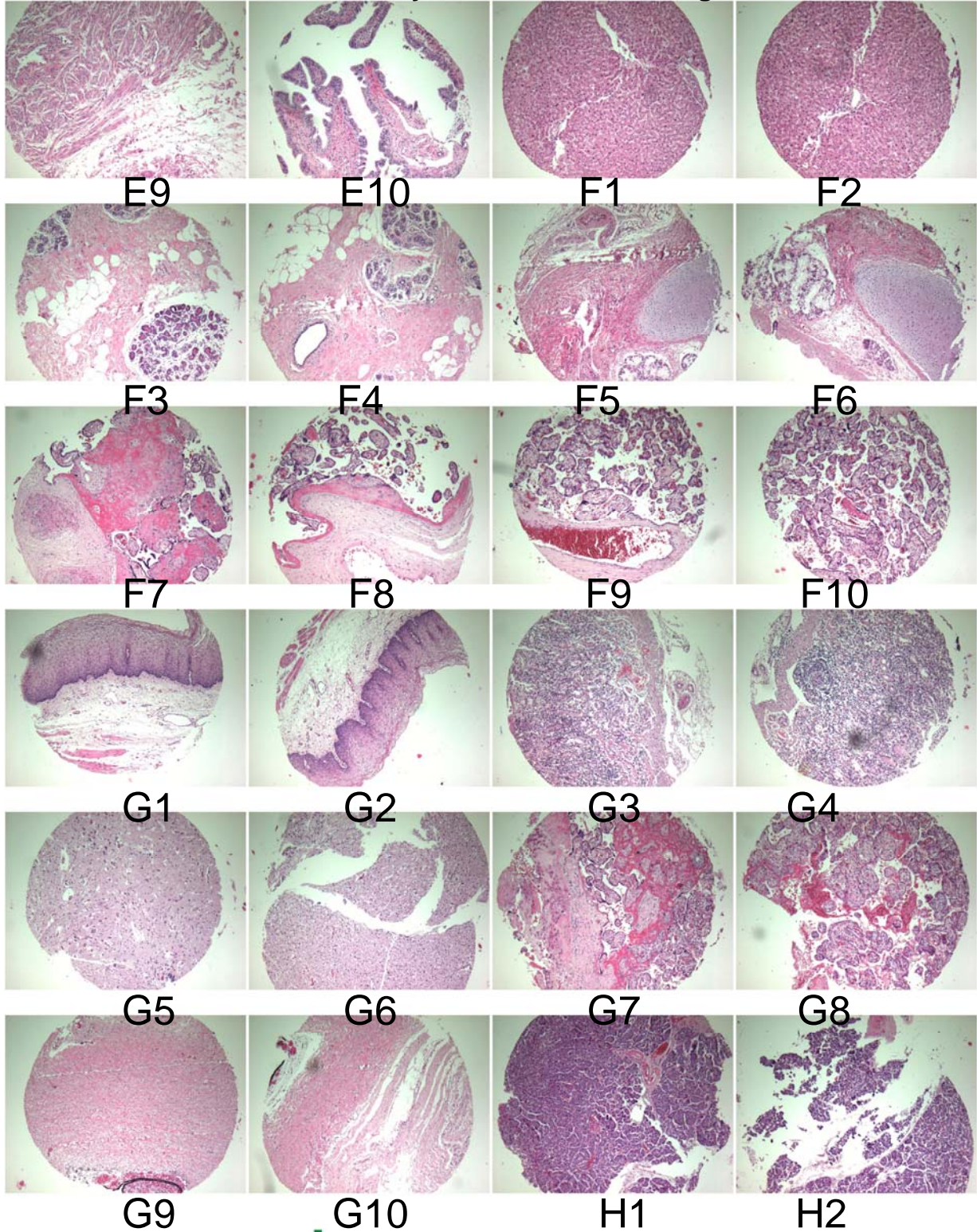
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Hematoxylin and Eosin staining



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For research use only

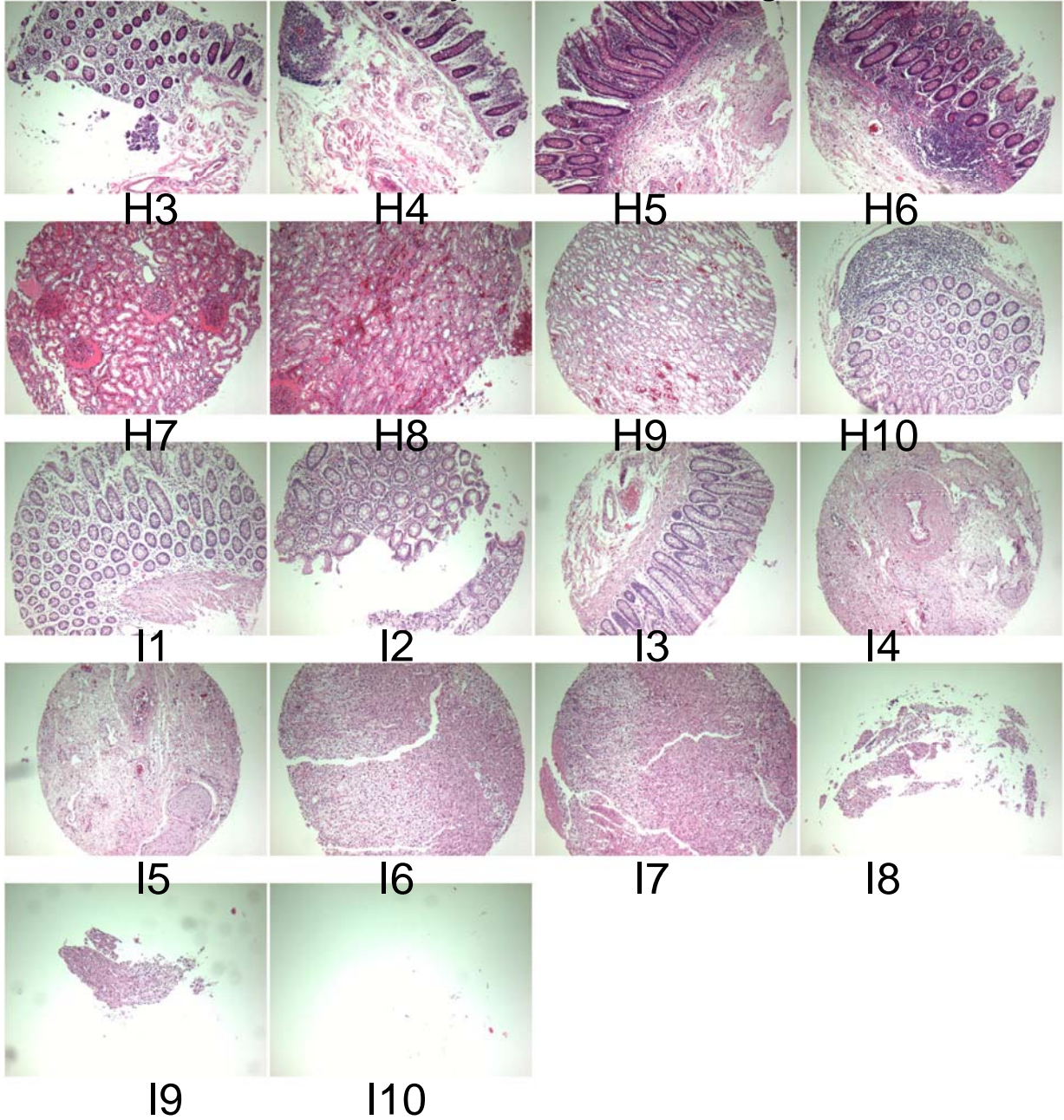
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Hematoxylin and Eosin staining



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QC sheet_LOT#11212006011
Hematoxylin and Eosin staining



A103(VII): Normal tissues, more than single spots

No	Coordinate	Sex	Age	Key word	Histological Diagnosis
1	A 1,2	m	64	cerebral cortex: non-neoplastic	autopsy
2	A 3,4	m	64	cerebellum: non-neoplastic	autopsy
3	A 5,6	m	64	basal ganglia: non-neoplastic	autopsy
4	A 7,8	m	59	prostate: non-neoplastic	Prostate, prostatectomy: 1. Adenocarcinoma (Gleason's score: 3+4:7) involving both lobes of peripheral and transitional zone without extracapsular extension (T2c by TNM stage and B2 by American staging system) and extensive perineural invasion. 2. Lymph nodes, external iliac, right(0/3) and left(0/5): Free of tumor metastasis in all 8 nodes.
5	A 9,10	m	0	testis: non-neoplastic	autopsy
6	B 1,2	m	64	hippocampus: non-neoplastic	autopsy
7	B 3,4	m	64	heart: non-neoplastic	autopsy
8	B 5,6	m	52	spleen: non-neoplastic	autopsy
9	B 7,8	f	59	cervix: non-neoplastic	Uterus with both adnexae, total abdominal hysterectomy with bilateral salpingoophorectomy: 1) Cervix: Chronic nonspecific inflammation. 2) Endometrium: Proliferative phase. 3) Myometrium: Leiomyoma, intramural. 4) Ovaries, both: Corpus luteal cyst. 5) Fallopian tubes, both: No pathological diagnosis.

A103(VII): Normal tissues, more than single spots

No	Coordinate	Sex	Age	Key word	Histological Diagnosis
10	B 9,10	m	59	endocervix: non-neoplastic	Uterus with both adnexae, total abdominal hysterectomy with bilateral salpingoophorectomy: 1) Cervix: Chronic nonspecific inflammation. 2) Endometrium: Proliferative phase. 3) Myometrium: Leiomyoma, intramural. 4) Ovaries, both: Corpus luteal cyst. 5) Fallopian tubes, both: No pathological diagnosis.
11	C 1,2	f	74	lymph node: non-neoplastic	Duodenum, ampulla of Vater, common bile duct, pancreas, and gall bladder, with cystic duct, PPPD: Invasive adenocarcinoma, moderately differentiated, in ampulla of Vater 1) size: 1.8x1.3x1cm 2) infiltrative growth 3) extension to pancreas and duodenum 4) vascular and perineural invasions 5) intact proximal and distal (small intestine), common bile duct and pancreatic resection margins 6) diverticulum in duodenum 7) autolysis in pancreas 8) chronic cholecystitis in gallbladder. 9) no metastasis to regional lymph nodes (intercaval(0/4), No.12(0/3) and mesenteric(0/3)). 10) chronic cholestasis with portal bridging fibrosis and ductular proliferation, associated with common bile duct obstruction.
12	C 3,4	m	0	thymus: non-neoplastic	autopsy

A103(VII): Normal tissues, more than single spots

No	Coordinate	Sex	Age	Key word	Histological Diagnosis
13	C 5,6	m	52	tongue: non-neoplastic	Tongue and lymph node, wide excision and dissection: 1. tongue: squamous cell carcinoma, well differentiated 1) size: 2.7x2.2cm 2) extension to the sublingual gland 3) perineural invasion(+) 2. resection margins, anterior, posterior, lateral side and basal margin: free of tumor 3. salivary gland, submandibular: free of tumor 4. skeletal muscle: free of tumor. 5. regional lymph nodes: free of tumor in all nodes(0/53), in detail, right level IIb(0/10), right level IIa (0/8), right level III(0/2), right level IV(0/4), right level Ib(0/5), left level Ia(0/4), left level Ib (0/5), left level III(0/6), left level IIa(0/3), left level IIb(0/6).
14	C 7,8	f	45	pro-endometrium: non-neoplastic	Uterus including right adnexa, total abdominal hysterectomy with right salpingoophorectomy: Cervix: Chronic nonspecific inflammation. Endometrium: Proliferative phase. Myometrium : Leiomyomas, intramural and subserosal. Ovary, right: Endometriotic cyst. Fallopian tube, right: No pathological diagnosis.
15	C 9,10	f	44	sec-endometrium: non-neoplastic	Uterus including both adnexae, total abdominal hysterectomy with bilateral salpingoophorectomy: 1) cervix: chronic nonspecific inflammation with low grade endocervical glandular dysplasia 2) endometrium: secretory polyp, late secretory phase 3) myometrium : leiomyoma, intramural, adenomyosis, focal 4) ovaries, bilateral: stromal edema 5) fallopian tubes, bilateral: no pathological diagnosis.
16	D 1,2	m	0	skeletal muscle: non-neoplastic	autopsy
17	D 3,4	m	18	tonsil non-neoplastic	Skin, preauricular area, excision: Consistent with first branchial cleft anomaly, type II. Tonsils, bilateral, tonsillectomy: Chronic follicular tonsillitis.

A103(VII): Normal tissues, more than single spots

No	Coordinate	Sex	Age	Key word	Histological Diagnosis	
18	D	5,6	f	20	paratoid gland: non-neoplastic	Parotid gland, right, parotidectomy: Pleomorphic adenoma. Lymph node: Reactive hyperplasia.
19	D	7,8	f	48	myometrium: non-neoplastic	Uterus with both adnexae, total abdominal hysterectomy with bilateral salpingoophorectomy: 1) cervix: chronic nonspecific inflammation 2) endometrium: proliferative phase 3) myometrium: adenomyosis 4) ovaries, bilateral: no pathological diagnosis 5) fallopian tubes, bilateral: no pathological diagnosis.
20	D	9,10	f	38	umbilical cord: non-neoplastic	Placenta, delivery: Meconium staining Umbilical cord: No pathillogical diagnosis.
21	E	1,2	m	64	ureter: non-neoplastic	Kidney, left, radical nephrectomy: Renal cell carcinoma, clear cell type, Fuhrman grade III, confined to the capsule. Resection margins, ureter and vascular: Free of tumor. Lymph nodes, hilar(0/1) and paraaortic(0/18): Free of tumor. Adrenal gland: No pathological diagnosis. EM> Ultrastructural features are compatible with renal cell carcinoma of conventional clear cell type.
22	E	3,4	m	70	soft tissue: non-neoplastic	Soft tissue and lymph node, neck, left, radical neck dissection: 1. Soft tissue: Diffuse large B cell lymphoma, see note. 2. Lymph nodes, separately submitted as level IA(0/7), level IB(0/11), level IV(0/16) and level V(0/17): (0/51): Reactive hyperplasia. 3. Salivary gland in level IB: Free of tumor. 4. Tonsil, left, tonsillectomy: Chronic follicular tonsillitis. 5. Immunohistochemical staining results: CD20: Positive to tumor cells CD3, CD4, CD8, Granzyme, CD30, CD56, ALK: Negative to tumor cells 6. EBER ISH: Negative
23	E	5,6	m	52	lung: non-neoplastic	autopsy
24	E	7,8	f	15	ovary: non-neoplastic	Ovary and fallopian tube, right, right salpingoophorectomy: 1) ovary: Malignant germ cell tumor, probably yolk sac tumor (endodermal sinus tumor) 2) fallopian tube: paraovarian cyst 3) result of special stain: AFP(+). HCG(-), PAS(+), D-PAS(-).

A103(VII): Normal tissues, more than single spots

No	Coordinate		Sex	Age	Key word	Histological Diagnosis
25	E	9,10	f	48	fallopian tube: non-neoplastic	Uterus with both adnexae, total abdominal hysterectomy with bilateral salpingoophorectomy: 1) cervix: chronic nonspecific inflammation 2) endometrium: proliferative phase 3) myometrium: adenomyosis 4) ovaries, bilateral: no pathological diagnosis 5) fallopian tubes, bilateral: no pathological diagnosis.
26	F	1,2	m	52	liver: non-neoplastic	autopsy
27	F	3,4	f	46	breast: non-neoplastic	Breast, right, mastectomy: 1. Fibrocystic change with foci of adenosis, columnar cell change and papillomatosis. 2. No residual ductal carcinoma in situ. 3. Nipple and areola: Free of tumor. 4. Overlying skin: Free of tumor. 5. Underlying fascia: Free of tumor. 6. Regional lymph node, axillary(0/8): Free of tumor.
28	F	5,6	m	0	bronchus: non-neoplastic	autopsy
29	F	7,8	f	34	placenta amnion: non-neoplastic	Placenta, C-section delivery: third trimester placenta with no pathological diagnosis.
30	F	9,10	f	34	placenta chorionvilli: non-neoplastic	Placenta, C-section delivery: third trimester placenta with no pathological diagnosis.
31	G	1,2	m	53	esophagus: non-neoplastic	Esophagus, esophagectomy: ulcerofungating squamous cell carcinoma, moderately differentiated with 1) size: 5x3cm 2) infiltrative growth 3) penetration of proper muscle layer and extension to adventitia(T3) 4) involvement at resection margin of adventitia 5) no vascular and perineural invasions 6) intact proximal(esophagus) and distal resection margin (stomach) 7) no metastasis to paraesophageal lymph nodes(0/2).

A103(VII): Normal tissues, more than single spots

No	Coordinate	Sex	Age	Key word	Histological Diagnosis
32	G 3,4	f	65	stomach: non-neoplastic	Stomach, pancreas and spleen, radical total gastrectomy, splenectomy and pancreatectomy: 1. stomach: ulceroinfiltrative adenocarcinoma, moderately differentiated, 1) size: 10.7x9cm 2) extension to the serosa and pancreas parenchyme 3) lymphovascular permeation: positive 4) Intestinal type by Lauren's classification 5) resection margins, proximal and distal: free of tumor 6) resection margin, pancreas: free of tumor 7) regional lymph nodes: Tumor metastasis to 2 out of 47(2/47), in detail, N1(0/5), N3(0/5), N4(0/8), N5(0/2), N6(1/16), N7(0/2), N8(1/4), N9(0/2), N10(0/3) 8) pancreas: tumor extension 9) spleen: congestion.
33	G 5,6	m	0	spinal cord: non-neoplastic	autopsy
34	G 7,8	f	34	placenta basal plate: non-neoplastic	Placenta, C-section delivery: third trimester placenta with no pathological diagnosis.
35	G 9,10	f	0	eye: non-neoplastic	autopsy
36	H 1,2	f	52	pancreas: non-neoplastic	autopsy
37	H 3,4	m	65	ileum: non-neoplastic	Distal ileum, colon and appendix, right hemicolectomy: 1. Ulcerofungating adenocarcinoma, moderately differentiated 1) extension to the pericolic fat tissue (no serosal involvement, pT3c) 2) presence of lymphovascular permeation 3) presence of perineural invasion 2. Separate mass: Tubular adenoma with low grade dysplasia. 3. Resection margins, proximal and distal: Free of tumor. 4. Regional lymph nodes: Tumor metastasis to 1 out of 62(1/62), in detail, intestinal(0/39), colonic(1/23). 5. Appendix: No pathological diagnosis.

A103(VII): Normal tissues, more than single spots

No	Coordinate		Sex	Age	Key word	Histological Diagnosis
38	H	5,6	m	46	cecum non-neoplastic	Cecum, ascending colon, terminal ileum and appendix, right hemicolectomy: ulcerofungating adenocarcinoma, moderately differentiated, in ascending colon with 1) size: 5x4cm 2) expanding growth 3) invasion to pericolic soft tissue 4) vascular invasion 5) intact proximal (terminal ileum) and distal(colon) resection margins 6) metastasis to 2 out of 32 pericolic lymph nodes 7) a tubular adenoma with low grade dysplasia in the surrounding mucosa 8) terminal ileum: prominent peyer's patch 9) appendix: free from tumor extension.
39	H	7,8	m	42	kidney cortex: non-neoplastic	Kidney, left radical nephrectomy: 1. Renal cell carcinoma, conventional (clear cell) type, Fuhrman's nuclear grade II, confined to renal capsule. 2. Ureter, resection margin: Free of tumor.
40	H	9,10	m	42	kidney medulla: non-neoplastic	Kidney, left radical nephrectomy: 1. Renal cell carcinoma, conventional (clear cell) type, Fuhrman's nuclear grade II, confined to renal capsule. 2. Ureter, resection margin: Free of tumor.
41	I	1,2	m	60	colon: non-neoplastic	Colon, rectum, lower anterior resection: adenocarcinoma, well differentiated, polypoid 1) size: 4.2x2.5cm 2) confined to the mucosa 3) associated low and high grade tubulo-villous adenoma 4) resection margins, proximal and distal: free of tumor 5) regional lymph nodes: free of tumor in all nodes(0/21), regional(0/21), principal(0/0).

A103(VII): Normal tissues, more than single spots

No	Coordinate	Sex	Age	Key word	Histological Diagnosis												
42	I 3,4	m	44	rectum: non-neoplastic	<p>Rectum, low anterior resection: Ulcerofungating adenocarcinoma, moderately differentiated</p> <ol style="list-style-type: none"> 1) size: 6.2x5.2cm 2) infiltrative growth 3) extension to perirectal soft tissue but intact lateral resection margin 4) no vascular and perineural invasion 5) intact proximal and distal resection margins 6) metastasis to 5 out of 29 perirectal lymph nodes (principal(0/9) and perirectal(5/20)) <p>* MSI(Microsatellite instability) test</p> <table border="0"> <tr> <td>Marker Name</td> <td>bat26</td> <td>D5S346</td> <td>bat25</td> <td>D17S250</td> <td>D2S123</td> </tr> <tr> <td>Microsatellite instability</td> <td>No</td> <td>No</td> <td>No</td> <td>No</td> <td>No</td> </tr> </table> <p>MSS</p> <p>Allelic imbalance: uninformative uninformative No(0.79) No(1.28)</p>	Marker Name	bat26	D5S346	bat25	D17S250	D2S123	Microsatellite instability	No	No	No	No	No
Marker Name	bat26	D5S346	bat25	D17S250	D2S123												
Microsatellite instability	No	No	No	No	No												
43	I 5,6	m	0	gall bladder: non-neoplastic	autopsy												
44	I 7,8	f	31	adrenal gland: non-neoplastic	<p>Soft tissue and adrenal gland, excision:</p> <ol style="list-style-type: none"> 1. Soft tissue: Chronic granulomatous inflammation with necrosis, consistent with tuberculosis. 2. Adrenal gland: No pathological diagnosis. <p>Note: Ziehl-Neelsen stain failed to demonstrate acid-fast bacilli.</p>												
45	I 9,10	m	55	skin: non-neoplastic	<p>Skin, lower back, wide excision: Dermatofibrosarcoma protuberans.</p> <ol style="list-style-type: none"> 1) Resection margin: Free of tumor. 												