

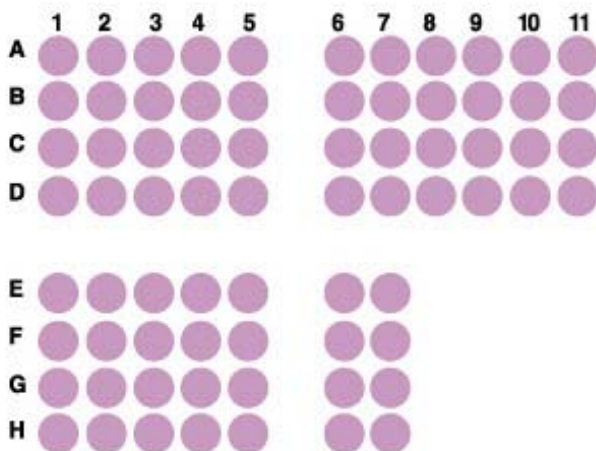
**Specifications:**

- No. of tissue types: 18
- Tissue type: Various cancer tissues
- No. of spots: 4 spots from each cancer tissue ( 72 spots)
- Total spots: 72
- Diameter: 1.0 mm

**Documents:**

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

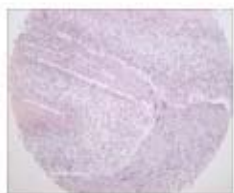
**Layout:**



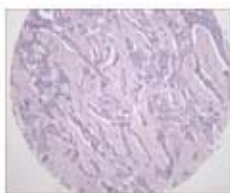
**Summary of tissue spots**

No	Coordinate	Sex	Age	Specimen	Key Word
1	A1 B1 C1 D1	m	28	Skin	Invasive squamous cell carcinoma
2	A2 B2	f	50	Breast	Infiltrating ductal carcinoma
3	C2 D2	f	65	Breast	Infiltrating ductal carcinoma
4	A3 B3	f	38	Thyroid gland	Papillary carcinoma
5	C3 D3	f	55	Thyroid gland	Papillary carcinoma
6	A4 B4	f	31	Thyroid gland	Follicular carcinoma
7	C4 D4	f	28	Thyroid gland	Follicular carcinoma
8	A5 B5	m	80	Lung	Lung: squamous cell carcinoma, emphysema, pulmonary hypertension, lymph node: free of tumor
9	C5 D5	m	68	Lung	Squamous cell carcinoma, obstructive pneumonitis, pneumonia
10	A6 B6	m	62	Lung	Adenocarcinoma, papillary carcinoma, bronchioalveolar carcinoma
11	C6 D6	m	62	Lung	Adenocarcinoma
12	A7 B7	f	50	Liver	Hepatocellular carcinoma
13	C7 D7	f	56	Liver	hepatocellular carcinoma
14	A8 B8	m	64	Liver	Cholangiocarcinoma
15	C8 D8	m	72	Liver	Cholangiocarcinoma
16	A9 B9	f	57	Kidney	Renal cell carcinoma
17	C9 D9	m	61	Kidney	Renal cell carcinoma
18	A10 B10	f	42	Ovary	Papillary serous adenocarcinoma
19	C10 D10	f	40	Ovary	Uterus: serous adenocarcinoma ovary: serous adenocarcinoma
20	A11 B11	f	26	Ovary (left)	Mucinous cystadenocarcinoma
21	C11 D11	f	31	Ovary	Mucinous carcinoma
22	E1 F1	f	41	Uterus	Squamous cell carcinoma
23	G1 H1	f	52	Uterus	Invasive squamous cell carcinoma
24	E2 F2	f	45	Uterus (endomyometrium)	Myometrium: endometrioid carcinoma, leiomyoma
25	G2 H2	f	57	Uterus (endometrium)	Endometrium: endometrioid carcinoma myometrium: leiomyoma
26	E3 F3	m	60	Esophagus	Squamous cell carcinoma
27	G3 H3	m	63	Esophagus	Basaloid carcinoma
28	E4 F4	f	69	Stomach	Adenocarcinoma
29	G4 H4	m	62	Stomach	Signet ring cell carcinoma
30	E5 F5	m	66	Stomach	Signet ring cell carcinoma
31	G5 H5	f	71	Stomach	Signet ring cell carcinoma
32	E6 F6	m	72	Colon	Sigmoid colon: adenocarcinoma
33	G6 H6	m	76	Colon	Sigmoid colon: adenocarcinoma
34	E7 F7	m	53	Rectum	Adenocarcinoma
35	G7 H7	m	43	Rectum	Adenocarcinoma

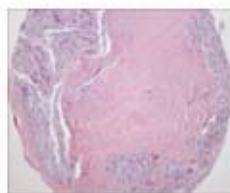
**QC sheet\_LOT#121120306031**  
**Haematoxylin and Eosin staining**



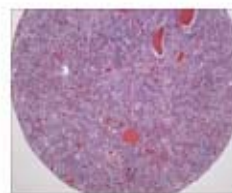
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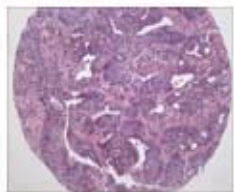
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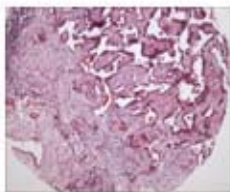
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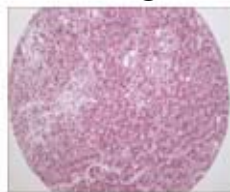
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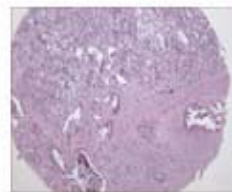
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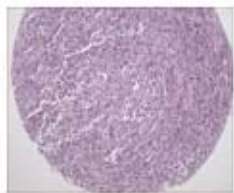
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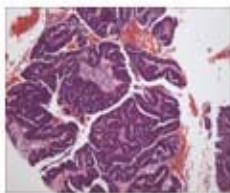
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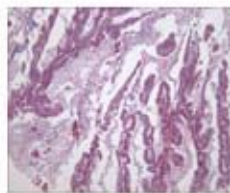
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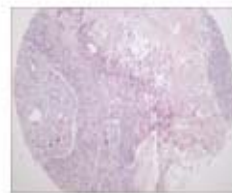
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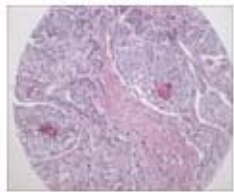
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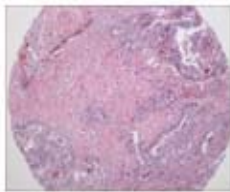
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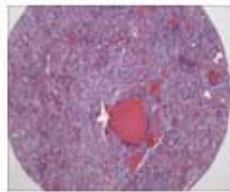
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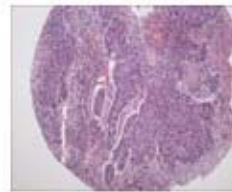
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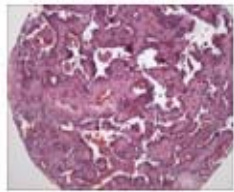
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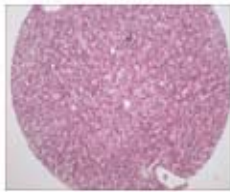
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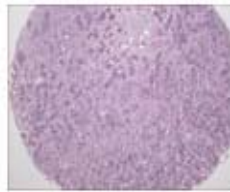
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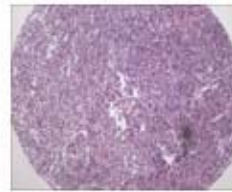
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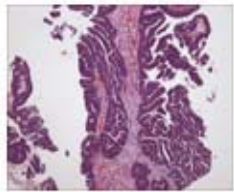
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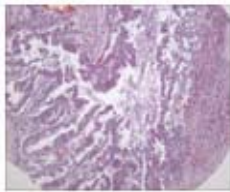
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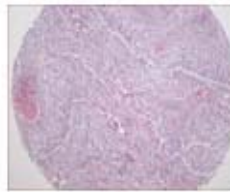
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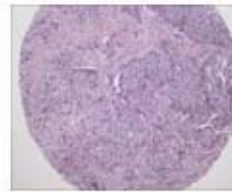
B10



B11

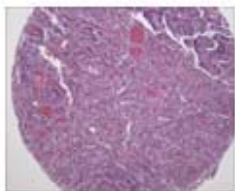


C1

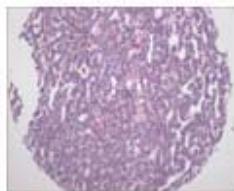


C2

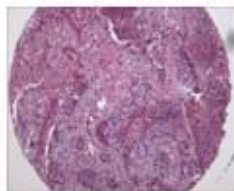
**QC sheet\_LOT#121120306031**  
**Haematoxylin and Eosin staining**



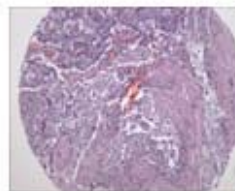
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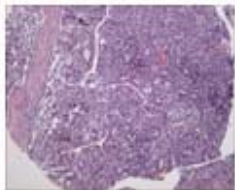
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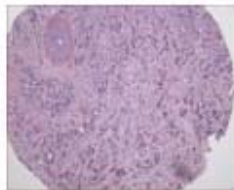
**C5**



**C6**



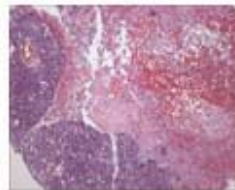
**C7**



**C8**



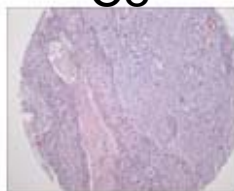
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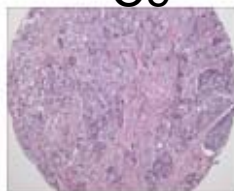
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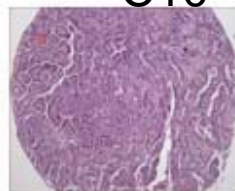
**C11**



**D1**



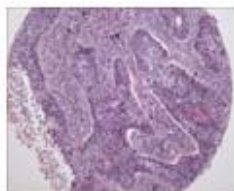
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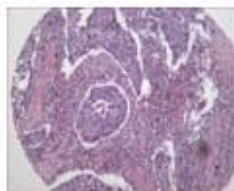
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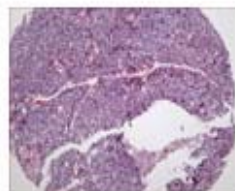
**D4**



**D5**



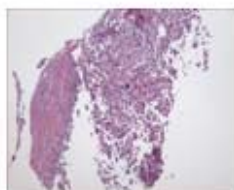
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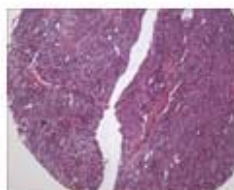
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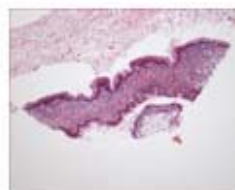
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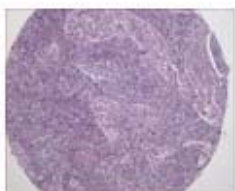
**D9**



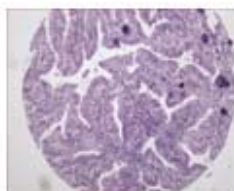
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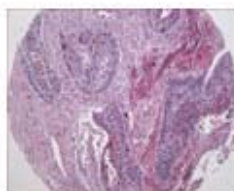
**D11**



**E1**



**E2**

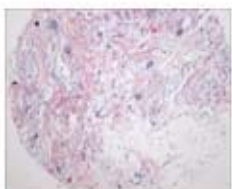


**E3**

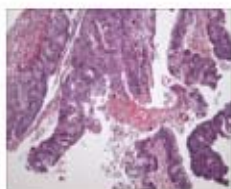


**E4**

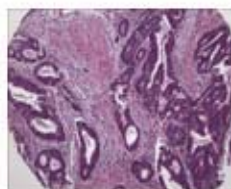
**QC sheet\_LOT#121120306031**  
**Haematoxylin and Eosin staining**



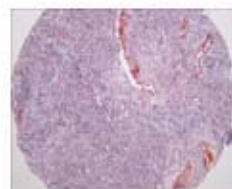
E5



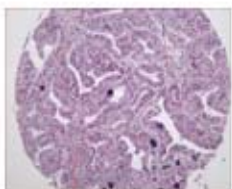
E6



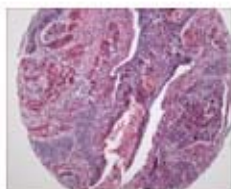
E7



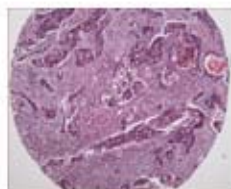
F1



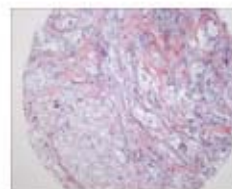
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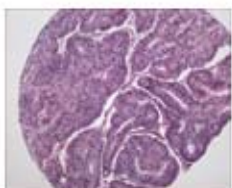
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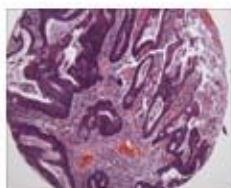
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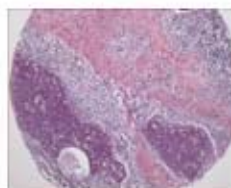
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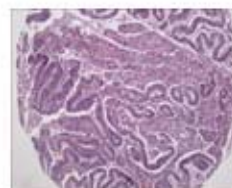
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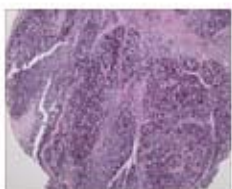
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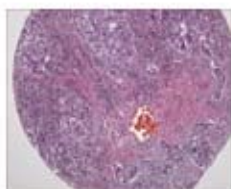
G1



G2



G3



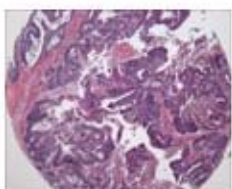
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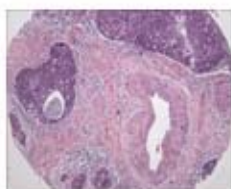
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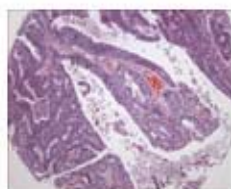
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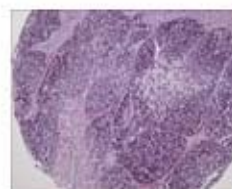
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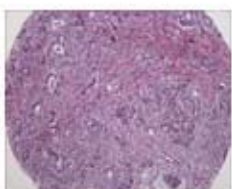
H1



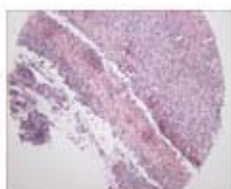
H2



H3



H4



H5



H6



H7

**QC sheet\_LOT#121120306031**  
**Immunostaining with MIB-1**



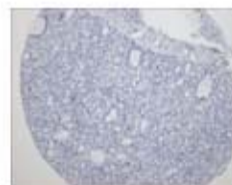
A1



A2



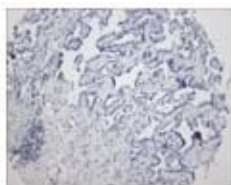
A3



A4



A5



A6



A7



A8



A9



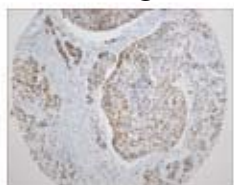
A10



A11



B1



B2



B3



B4



B5



B6



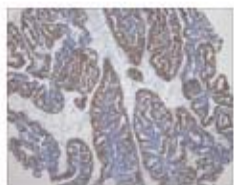
B7



B8



B9



B10



B11

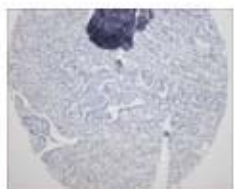


C1



C2

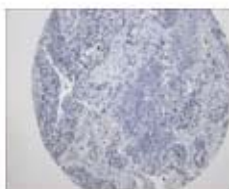
**QC sheet\_LOT#121120306031**  
**Immunostaining with MIB-1**



**C3**



**C4**



**C5**



**C6**



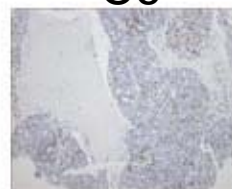
**C7**



**C8**



**C9**



**C10**



**C11**



**D1**



**D2**



**D3**



**D4**



**D5**



**D6**



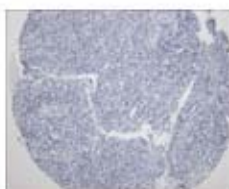
**D7**



**D8**



**D9**



**D10**



**D11**



**E1**



**E2**



**E3**



**E4**

**QC sheet\_LOT#121120306031**  
**Immunostaining with MIB-1**



**E5**



**E6**



**E7**



**F1**



**F2**



**F3**



**F4**



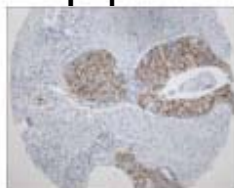
**F5**



**F6**



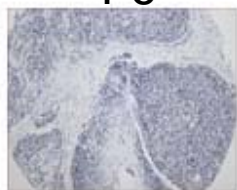
**F7**



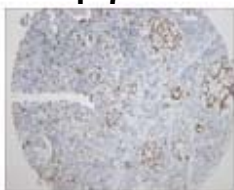
**G1**



**G2**



**G3**



**G4**



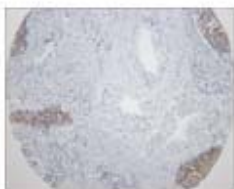
**G5**



**G6**



**G7**



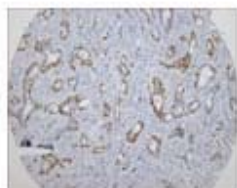
**H1**



**H2**



**H3**



**H4**



**H5**



**H6**



**H7**

**A201(I): Various cancer tissues**

No.	Coordinate	Sex	Age	Specimen	Key Word	Histological Diagnosis
1	A1 B1 C1 D1	M	28	skin	invasive squamous cell carcinoma	Skin, scalp, excision: invasive squamous cell carcinoma, well-differentiated with extension to the subcutaneous fat tissue (invasion depth: about 3cm) resection margins, all circumference and base: free of tumor lymph nodes, level 2a (0/36), level 2b (0/11), level III (0/25), level IV (0/13) and level V (0/11): (0/96): free of tumor.
2	A2 B2	F	50	breast	infiltrating ductal carcinoma	Breast, left, palliative mastectomy: infiltrating ductal carcinoma, with 1. histologic grade: II 2. black's nuclear grade: 1 3. extensive lymphatic invasion 4. intraductal component: less than 10% 5. multinodularity nipple and areola: free of tumor overlying skin: superficial dermal invasion by the tumor underlying fascia: presence of tumor, focal lymph nodes, level I (9/23) and level II (2/2): metastasis in 11 out of 25 lymph nodes (pN1biv) result of immunohistochemical staining: ER (+), PR (-), C erb B2 (-).
3	C2 D2	F	65	breast	infiltrating ductal carcinoma	Breast, left, partial mastectomy: infiltrating ductal carcinoma, with 1. histologic grade: II 2. nuclear grade: 2 3. no definitive lymphatic invasion results of immunohistochemical stain: ER (+), PR (+), C-erb B2 (-).

**A201(I): Various cancer tissues**

No.	Coordinate	Sex	Age	Specimen	Key Word	Histological Diagnosis
4	A3 B3	F	38	thyroid gland	papillary carcinoma	Thyroid, total thyroidectomy: papillary carcinoma with 1) size: 4.5x3x2.5cm 2) extensive extension to perithyroidal soft tissue and surrounding skeletal muscle 3) lymphovascular invasion 4) multiple metastasis to surrounding soft tissue and lymph nodes (29/62: level 2,3,4,5 (12/35), level 2 (2/10), No.6 (1/1), perithyroidal (14/16)) 5) intact jugular vein 6) nodular goiter.
5	C3 D3	F	55	thyroid gland	papillary carcinoma	Thyroid gland, total thyroidectomy and left RND: papillary carcinoma, bilateral, with extension beyond thyroid capsule lymph nodes, regional (0/1), level 2,3,4 (3/23) and level 5-6 (5/5): metastasis in 8 out of 29 nodes.
6	A4 B4	F	31	thyroid gland	follicular carcinoma	Follicular carcinoma, minimally invasive, showing capsular invasion
7	C4 D4	F	28	thyroid gland	follicular carcinoma	Minimally invasive follicular carcinoma showing capsular invasion
8	A5 B5	M	80	lung	lung: squamous cell carcinoma, emphysema, pulmonary hypertension, lymph node: free of tumor	Lung, left lower lobe, lobectomy: 1. squamous cell carcinoma, moderately differentiated, - size: 6.5x4.5cm - confined within the lung parenchyme - presence of tumor emboli 2. surrounding lung - emphysema - pulmonary hypertension - bronchiolitis with obstructive pneumonia - focal septal thickening with fibrosis - anthracotic macules and nodules 3. bronchial resection margin: free of tumor 4. regional lymph nodes: free of tumor in all nodes (0/35), in detail, peribronchial (0/5), IPL (0/1), subcarinal (0/10), right hilar (0/5), A-P window (0/9), left hilar (0/5).

**A201(I): Various cancer tissues**

No.	Coordinate	Sex	Age	Specimen	Key Word	Histological Diagnosis
9	C5 D5	M	68	lung	squamous cell carcinoma, obstructive pneumonitis, pneumonia	<p>Lung, right, pneumonectomy:</p> <ol style="list-style-type: none"> <li>upper lobe: squamous cell carcinoma, moderately differentiated, with <ul style="list-style-type: none"> <li>- extension to the visceral pleura</li> <li>- marked central necrosis</li> <li>- tumor size: 6.3x5.5cm</li> <li>- obstructive pneumonitis in the remaining lung</li> </ul> </li> <li>lower lobe: lobar pneumonia</li> <li>resection margin: free of tumor</li> <li>regional lymph nodes: free of tumor in all nodes (0/13), in detail, subcarinal (0/6), lower paratracheal (0/2), regional (0/5).</li> </ol>
10	A6 B6	M	62	lung	adenocarcinoma, papillary carcinoma, bronchioalveolar carcinoma	<p>Lung, right upper and mid lobes, lobectomy:</p> <ol style="list-style-type: none"> <li>upper lobe: adenocarcinoma, acinar type, moderately differentiated, mixed with papillary carcinoma and bronchioloalveolar carcinoma <ul style="list-style-type: none"> <li>- extension to the visceral pleura</li> <li>- tumor size: 4.5x2.5cm</li> <li>- associated anthracotic nodule with fibrosis</li> <li>- bronchial resection margin: free of tumor</li> </ul> </li> <li>mid lobe: papillary carcinoma, <ul style="list-style-type: none"> <li>- confined within the lung</li> <li>- tumor size: 1.5x0.6cm</li> <li>- bronchial resection margin: free of tumor</li> </ul> </li> <li>regional lymph nodes: free of tumor in all nodes (0/12), in detail, IPL (0/3), hilar (0/7), regional (0/2).</li> </ol>

**A201(I): Various cancer tissues**

No.	Coordinate	Sex	Age	Specimen	Key Word	Histological Diagnosis
11	C6 D6	M	62	lung	adenocarcinoma	<p>Lung, right upper lobe, lobectomy:</p> <ol style="list-style-type: none"> <li>1. adenocarcinoma, poorly differentiated, solid type               <ul style="list-style-type: none"> <li>- size (10x6cm)</li> <li>- extension to the chest wall and rib</li> <li>- marked tumor necrosis</li> <li>- lymphovascular permeation: positive</li> <li>- associated emphysema and bullae</li> </ul> </li> <li>2. resection margin, bronchial: free of tumor resection margin, SVC: free of tumor</li> <li>3. SVC: free of tumor</li> <li>4. regional lymph nodes: tumor metastasis to 1 out of 7 (1/7), in detail, IPL (0/1), hilar (0/1), right lower paratracheal (1/3), regional (0/2).</li> </ol>
12	A7 B7	F	50	liver	hepatocellular carcinoma	<p>Liver, right, trisegmentectomy:</p> <p>hepatocellular carcinoma, probably arising in liver cell adenoma with</p> <ol style="list-style-type: none"> <li>1) size: 17x15x10.5cm</li> <li>2) single nodular type with perinodal growth (expanding growth)</li> <li>3) edmondson grade I to II</li> <li>4) trabecular (majority) and adenoid histologic pattern</li> <li>5) necrosis: less than 10% of total volume</li> <li>6) capsular involvement</li> <li>7) intact resection margin (safety margin: 0.3cm)</li> <li>8) no vascular invasion</li> <li>9) nonneoplastic liver showing marked cholestasis with focal biliary cirrhosis and sinusoidal congestion due to mass gallbladder: cholelithiasis with tumor extension.</li> </ol>

**A201(I): Various cancer tissues**

No.	Coordinate	Sex	Age	Specimen	Key Word	Histological Diagnosis
13	C7 D7	F	56	liver	hepatocellular carcinoma	Liver, clinically site unstated, segmentectomy: hepatocellular carcinoma with focal biliary differentiation and prominent stromal fibrosis with 1) size: 9x7.5x5cm 2) edmondson grade II to III 3) macrotrabecular, adenoid and compact histologic type 4) extension to capsule, soft tissue and diaphragm 5) vascular invasion 6) involvement at resection margin gallbladder, cholecystectomy: free from tumor extension.
14	A8 B8	M	64	liver	cholangiocarcinoma	Liver, right lobe, lobectomy: cholangiocarcinoma, moderately differentiated, peripheral type 1) size: 11.5x9.5x7.0cm 2) expanding growth and extensive necrosis 3) penetration of hepatic capsule and invasion to soft tissue adjacent to diaphragm 4) vascular invasion (but not portal vein) 5) intrahepatic metastasis 6) intact intrahepatic resection margin and diaphragm 7) nonneoplastic liver showing reactive hepatitis gallbladder, cholecystectomy: free from tumor extension.
15	C8 D8	M	72	liver	cholangiocarcinoma	Liver and hepatic duct, trisegmentectomy: cholangiocarcinoma, adenocarcinoma, moderately differentiated, hilar type (Klastkin tumor) with 1) size: 2cm in the greatest dimension 2) infiltrative growth 3) extension to perihilar soft tissue and liver 4) frequent perineural invasion 5) involvement at right hepatic resection margin 6) intact resection margins of liver and common bile duct 7) no metastasis to regional lymph nodes (No.1 (0/2) and No.2 (0/2)) 8) non-neoplastic liver showing biliary cirrhosis with marked cholestasis 9) chronic cholecystitis without tumor metastasis in gallbladder.

**A201(I): Various cancer tissues**

No.	Coordinate	Sex	Age	Specimen	Key Word	Histological Diagnosis
16	A9 B9	F	57	kidney	renal cell carcinoma	Kidney, left, radical nephrectomy: renal cell carcinoma, conventional(clear cell) type, with 1. fuhrman's nuclear grade: 4 2. foci of sarcomatoid differentiation 3. invasion to the perinephric fat tissue but not to Gerota's fascia 4. renal vein involvement (pT3b) resection margin, ureter: free of tumor resection margin, renal vein: presence of tumor lymph nodes, perihilar (0/11), paraaortic (0/2) and left common iliac (0/3): free of tumor metastasis in all 16 nodes adrenal gland: free of tumor.
17	C9 D9	M	61	kidney	renal cell carcinoma	Kidney, left, radical nephrectomy: renal cell carcinomas 1. conventional type (clear cell and granular cell) 2. focally invading into perinephric fat but not beyond Gerota's fascia 3. extending into renal vein 4. fuhrman's nuclear grade III resection margin, ureter: free of tumor adrenal gland: free of tumor regional lymph node, paraaortic (0/20): free of tumor.
18	A10 B10	F	42	ovary	papillary serous adenocarcinoma	Ovary and fallopian tube, side unstated, oophorectomy: ovary: papillary serous cystadenocarcinoma, grade III with extraovarian spread fallopian tube: free of tumor.
19	C10 D10	F	40	ovary	uterus: serous adenocarcinoma ovary: serous adenocarcinoma	Omentum and peritoneum labelled as bladder dome, bilateral pelvis and ileocecum: metastatic adenocarcinoma appendix, incidental appendectomy: no pathological diagnosis.

**A201(I): Various cancer tissues**

No.	Coordinate	Sex	Age	Specimen	Key Word	Histological Diagnosis
20	A11 B11	F	26	ovary (left)	mucinous cystadenocarcinoma	Ovary and fallopian tube, left, salpingoophorectomy: ovary, left: mucinous cystadenocarcinoma confined within the capsule fallopian tube: free of tumor ovary, right, partial oophorectomy: mesothelial hyperplasia without tumor soft tissue, right and left, paracolic gutter, right retroperitoneum: chronic nonspecific inflammation without tumor omentum, partial omentectomy: chronic nonspecific inflammation with mesothelial hyperplasia.
21	C11 D11	F	31	ovary	mucinous carcinoma	Ovary and fallopian tube, right, right salpingoophorectomy: mucinous intraepithelial carcinoma with pseudomyxoma ovary formation, limited within the capsule Fallopian tube: no pathological diagnosis
22	E1 F1	F	41	uterus (cervix)	squamous cell carcinoma	Uterus, radical abdominal hysterectomy with BPLND: cervix: squamous cell carcinoma, large cell, partly keratinizing - size: 4.3x4.7cm - invasion depth: 7mm - no serosal involvement - lymphovascular permeation: positive endometrium: proliferative phase myometrium : no pathological diagnosis parametra, bilateral: free of tumor vaginal cuff: free of tumor regional lymph nodes: free of tumor in all nodes (0/17), in detail, right pelvic node (0/9), left pelvic node (0/8).

**A201(I): Various cancer tissues**

No.	Coordinate	Sex	Age	Specimen	Key Word	Histological Diagnosis
23	G1 H1	F	52	uterus (cervix)	invasive squamous cell carcinoma	Uterus with adnexae, bilateral, radical abdominal hysterectomy with bilateral salpingoophorectomy: cervix: 1) invasive squamous cell carcinoma, large cell, nonkeratinizing 2) invasion depth: 2cm 3) no lymphovascular permeation endometrium: atrophy myometrium: adenomyosis ovary, right: no pathological diagnosis fallopian tubes, bilateral: no pathological diagnosis parametria, bilateral: free of tumor vaginal cuff: free of tumor lymph nodes, right pelvic (0/1) and left pelvic (0/2): (0/3): free of tumor.
24	E2 F2	F	45	uterus (endomyometrium)	myometrium : endometrioid carcinoma, leiomyoma	Uterus, radical abdominal hysterectomy with bilateral salpingoophorectomy: cervix: 1. chronic nonspecific inflammation 2. endometriosis endomyometrium: 1. endometrioid carcinoma, well differentiated (grade I), type I, with superficial myometrial invasion (depth of invasion:1/20mm) and no lymphatic invasion, and no cervical involvement 2. leiomyomas, intramural ovaries, bilateral: no pathological diagnosis fallopian tubes, bilateral: no pathological diagnosis parametria, bilateral: free of tumor vaginal cuff: free of tumor lymph nodes, right pelvic (0/8) and left pelvic (0/5): free of tumor metastasis in all 13 nodes.
25	G2 H2	F	57	uterus (endometrium)	endometrium: endometrioid carcinoma myometrium : leiomyoma	Uterus with both adnexa, total abdominal hysterectomy with bilateral salpingoophorectomy: cervix: follicular cervicitis with squamous metaplasia endomyometrium: endometrioid carcinoma, partly villoglandular, well differentiated (grade 1), with 1) superficial myometrial invasion 2) associated with hyperplasia (type I) 3) no vascular invasion 4) limited within uterine corpus myometrium: leiomyomas, intramural parametria, bilateral: free of tumor ovaries, bilateral: no pathological diagnosis fallopian tubes, bilateral: no pathological diagnosis lymph nodes, right pelvic (0/16) and left pelvic (0/7): free of tumor metastasis in all 23 nodes.

**A201(I): Various cancer tissues**

No.	Coordinate	Sex	Age	Specimen	Key Word	Histological Diagnosis
26	E3 F3	M	60	esophagus	squamous cell carcinoma	Esophagus, lower, esophagectomy: 1. ulcerative squamous cell carcinoma, moderately differentiated, with - extension to the periesophageal fat tissue - lateral margin: free of tumor - lymphovascular permeation: positive 2. resection margin, proximal, esophageal: free of tumor resection margin, distal, gastric: free of tumor 3. regional lymph nodes: tumor metastasis to 3 out of 10 (3/10), in detail, gastric node (0/1), paraesophageal (0/6), celiac (3/3).
27	G3 H3	M	63	esophagus	basaloid carcinoma	Esophagus, esophagectomy: basaloid squamous cell carcinoma with 1) size: 2.7x2.0x2.0cm 2) expanding growth 3) involvement at submucosal space and extension to upper border of proper muscle layer 4) intact proximal and distal resection margin 5) no tumor metastasis to upper paraesophageal lymph node (separately submitted: 0/2).
28	E4 F4	F	69	stomach	adenocarcinoma	Stomach, subtotal gastrectomy: adenocarcinoma, poorly differentiated, partly signet ring cell carcinoma ulcerative type with extension to the perigastric fat tissue and multifocal lymphovascular permeation resection margins, proximal and distal: free of tumor lymph nodes, No.3 (5/6), No.4 (2/6), No.6 (2/8), No.7 (2/8) and No.8 (0/3) : (11/31): tumor metastasis to 11 out of 31 lymph nodes with perinodal soft tissue extension in No.3, No.4 lymph nodes.

**A201(I): Various cancer tissues**

No.	Coordinate	Sex	Age	Specimen	Key Word	Histological Diagnosis
29	G4 H4	M	62	stomach	signet ring cell carcinoma	Stomach, radical subtotal gastrectomy: 1. signet ring cell carcinoma with mucin pool formation (about 30-40% of tumor), ulceroinfiltrative type, and extension to the perigastric fat tissue with exposure to free serosal surface 2. multifocal lymphovascular permeation 3. resection margins, proximal and distal: free of tumor 4. lymph nodes, No.3 (13/16), No.4 (3/3), No.5 (1/1), No.6 (10/10), No.7 (2/2) and No.8 (4/4) : (33/36) : tumor metastasis to 33 out of 36 lymph nodes with perinodal soft tissue extension.
30	E5 F5	M	66	stomach	signet ring cell carcinoma	Stomach, subtotal gastrectomy: signet ring cell carcinoma 1. diffuse infiltrative type 2. with extension to serosa and perigastric fat tissue (SE) 3. frequent lymphatic permeation and perineural invasion 4. focally mixed with tubular adenocarcinoma, moderately differentiated 5. mixed type by Lauren's classification and infiltrative type by Ming's classification resection margins, proximal and distal: free of tumor regional lymph nodes, No.3 (6/5), No.4 (1/1), No.5 (0/0), No.6 (9/14), No.7 (1/9), No.8 (0/3), No.12 (0/1), No.13 (0/3), No.17 (0/2) : (17/38): tumor metastasis in 17 out of 38 nodes.
31	G5 H5	F	71	stomach	signet ring cell carcinoma	Stomach, radical subtotal gastrectomy: signet ring cell carcinoma, diffusely infiltrative, with 1. histologic classification by Lauren: diffuse type, and by Ming: infiltrating type 2. extension to the serosal surface (si) 3. extensive lymphatic invasion 4. non-neoplastic mucosa: Helicobacter pylori-chronic atrophic gastritis, active with intestinal metaplasia resection margins, proximal and distal: free of tumor lymph nodes, No.1 (0/5), No.3 (0/3), No.4 (0/5), No.5 (0/2), No.6 (1/6), No.7 (0/8) and No.8 (0/2): metastasis in 1 out of 31 nodes pancreas, labelled as small bowel nodule, excision: ectopic pancreas.

**A201(I): Various cancer tissues**

No.	Coordinate	Sex	Age	Specimen	Key Word	Histological Diagnosis
32	E6 F6	M	72	colon	sigmoid colon: adenocarcinoma	Sigmoid colon with pericolic fatty tissue, anterior resection: fungating adenocarcinoma, moderately differentiated with 1) size: 7x6x3.5cm 2) expanding growth 3) marked inflammation 4) extension to pericolic fatty tissue 5) lymphovascular invasion 6) intact proximal and distal resection margins 7) no metastasis to pericolic lymph nodes (0/26: pericolic (0/24) and principal, separately submitted (0/2)).
33	G6 H6	M	76	colon	sigmoid colon: adenocarcinoma	Sigmoid colon with pericolic fatty tissue, anterior resection: ulcerative adenocarcinoma, moderately differentiated, with 1) size: 3.5x3.5cm 2) expanding growth 3) penetration of muscle layer and extension to pericolic fatty tissue 4) lymphovascular invasion 5) intact proximal and distal resection margins 6) metastasis to 1 out of 9 pericolic fatty tissue (1/9): pericolic (1/9) and principal, separately submitted (0/0).
34	E7 F7	M	53	rectum	adenocarcinoma	Rectum with perirectal fatty tissue, low anterior resection: ulceroinfiltrative adenocarcinoma, moderately differentiated, with 1) size: 7x6cm 2) infiltrative growth 3) penetration of proper muscle layer and extension to perirectal soft tissue 4) vascular invasion 5) intact proximal, distal and lateral resection margins 6) metastasis to 1 out of 17 lymph nodes (principal (0/0) and perirectal (1/17)).

**A201(I): Various cancer tissues**

No.	Coordinate	Sex	Age	Specimen	Key Word	Histological Diagnosis
35	G7 H7	M	43	rectum	adenocarcinoma	<p>Rectum, urinary bladder, seminal vesicle, and ureter, lower anterior resection:            rectum: adenocarcinoma, ulceroinfiltrative type with</p> <ol style="list-style-type: none"> <li>1) extensive to perirectal fat tissue</li> <li>2) very close to lateral margin (within 1mm)</li> <li>3) marked desmoplastic reaction</li> <li>4) no vascular permeation</li> <li>5) marked reactive fibrosis of perirectal fat tissue</li> <li>6) no invasion to bladder wall, ureter, or seminal vesicle</li> </ol> <p>resection margins, proximal and distal: free of tumor            regional lymph node, principal (0/0), perirectal (3/10) : (3/10): metastatic adenocarcinoma in 3 out of 10 nodes            urinary bladder: reactive fibroblastic proliferation in lamina propria.</p>