

**A312- Breast cancer tissues with
corresponding normal tissues**

(formalin fixed)

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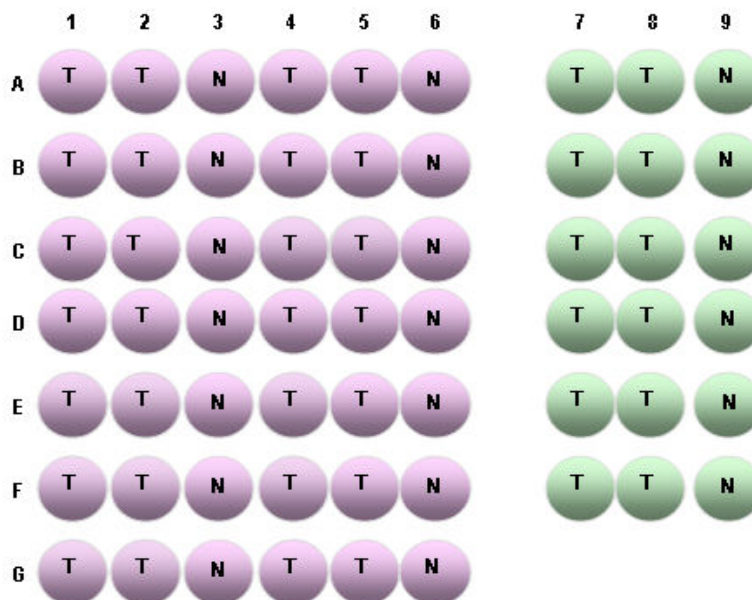
Specifications:

- No. of cases: 20
- Tissue type: Breast cancer tissues with corresponding normal tissues
- No. of spots: 2 spots from each cancer case (40 spots)
20 non-neoplastic spots (20 spots)
- Total spots: 60
- Corresponding normal tissues with cancers: Yes
- Diameter: 1.0 mm

Documents:

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

Layout:



● : moderately
● : poorly

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Summary of tissue spots

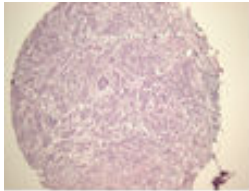
No	Coordinate	Sex	Age	Key Word	
1	A	1,2	f	45	Invasive ductal carcinoma
2	A	3	f	45	Non-neoplastic from A1,2
3	A	4,5	f	47	Invasive ductal carcinoma
4	A	6	f	47	Non-neoplastic from A4,5
5	A	7,8	f	44	Invasive ductal carcinoma
6	A	9	f	44	Non-neoplastic from A7,8
7	B	1,2	f	51	Invasive ductal carcinoma
8	B	3	f	51	Non-neoplastic from B1,2
9	B	4,5	f	62	Invasive ductal carcinoma
10	B	6	f	62	Non-neoplastic from B4,5
11	B	7,8	f	59	Invasive ductal carcinoma
12	B	9	f	59	Non-neoplastic from B7,8
13	C	1,2	f	46	Invasive ductal carcinoma
14	C	3	f	46	Non-neoplastic from C1,2
15	C	4,5	f	41	Invasive ductal carcinoma
16	C	6	f	41	Non-neoplastic from C4,5
17	C	7,8	f	70	Invasive ductal carcinoma
18	C	9	f	70	Non-neoplastic from C7,8
19	D	1,2	f	75	Invasive ductal carcinoma
20	D	3	f	75	Non-neoplastic from D1,2
21	D	4,5	f	26	Invasive ductal carcinoma
22	D	6	f	26	Non-neoplastic from D4,5
23	D	7,8	f	49	Invasive ductal carcinoma
24	D	9	f	49	Non-neoplastic from D7,8
25	E	1,2	f	44	Invasive ductal carcinoma
26	E	3	f	44	Non-neoplastic from E1,2
27	E	4,5	f	68	Invasive ductal carcinoma
28	E	6	f	68	Non-neoplastic from E4,5
29	E	7,8	f	45	Invasive ductal carcinoma
30	E	9	f	45	Non-neoplastic from E7,8
31	F	1,2	f	54	Invasive ductal carcinoma
32	F	3	f	54	Non-neoplastic from F1,2
33	F	4,5	f	55	Invasive ductal carcinoma
34	F	6	f	55	Non-neoplastic from F4,5
35	F	7,8	f	57	Invasive ductal carcinoma
36	F	9	f	57	Non-neoplastic from F7,8
37	G	1,2	f	35	Invasive ductal carcinoma
38	G	3	f	35	Non-neoplastic from G1,2
39	G	4,5	f	42	Invasive ductal carcinoma
40	G	6	f	42	Non-neoplastic from G4,5

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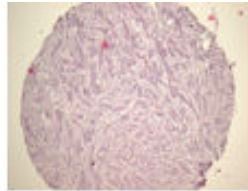
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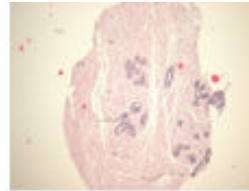
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Hematoxylin and Eosin staining**



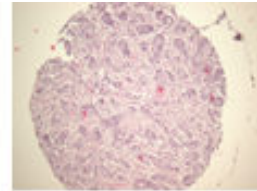
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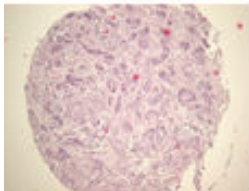
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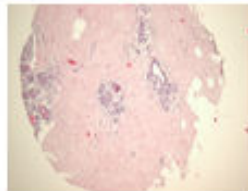
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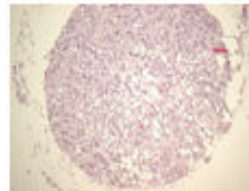
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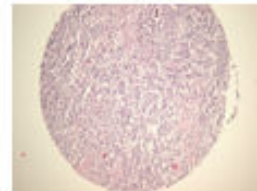
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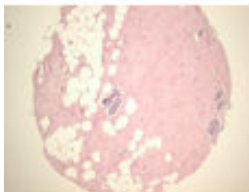
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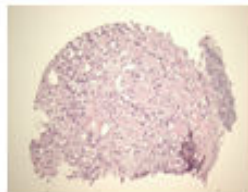
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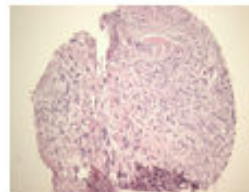
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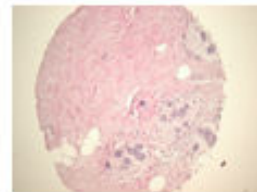
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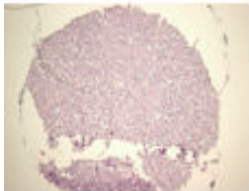
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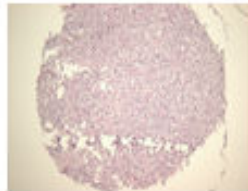
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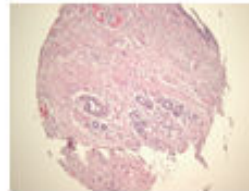
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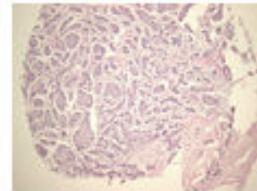
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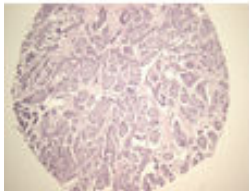
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B6



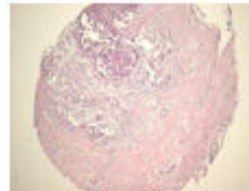
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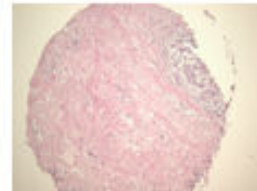
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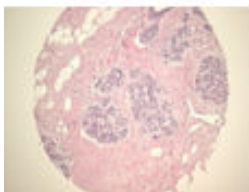
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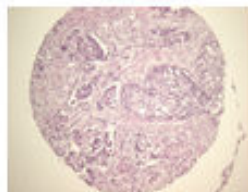
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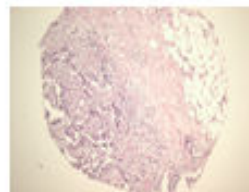
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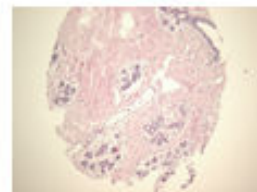
C3



C4



C5



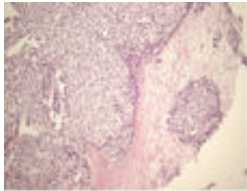
C6

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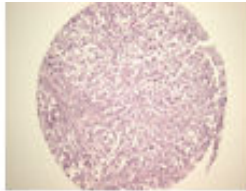
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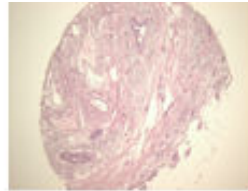
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Hematoxylin and Eosin staining**



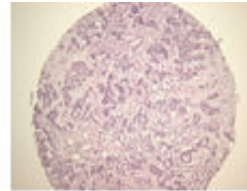
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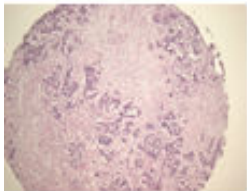
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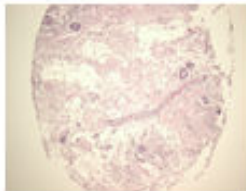
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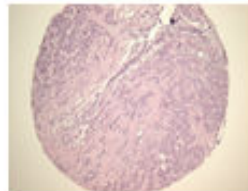
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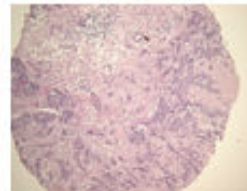
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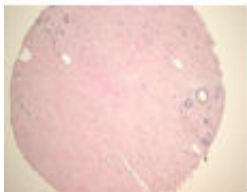
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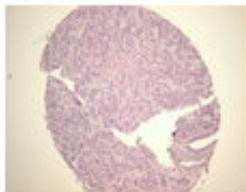
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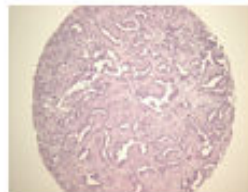
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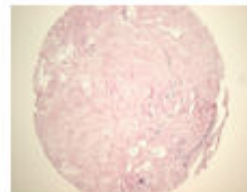
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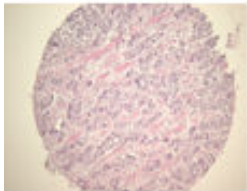
D7



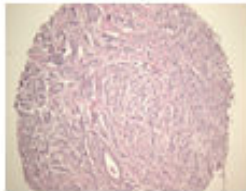
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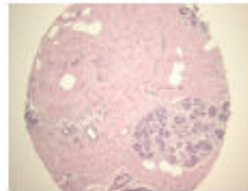
D9



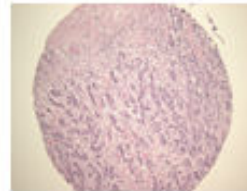
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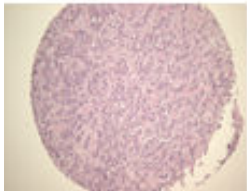
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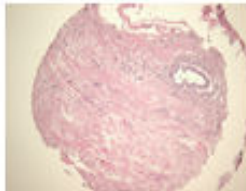
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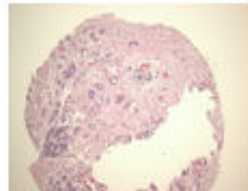
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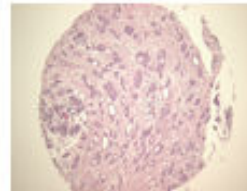
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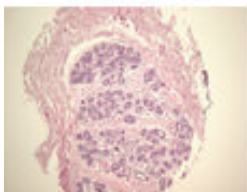
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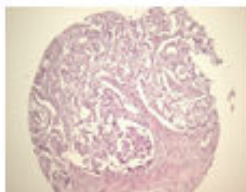
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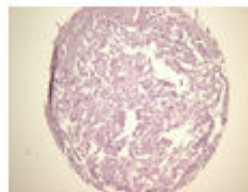
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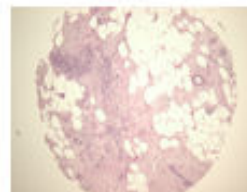
E9



F1



F2



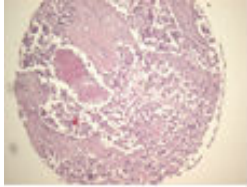
F3

**A312- Breast cancer tissues with
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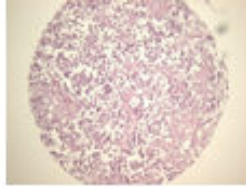
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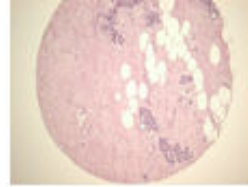
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Hematoxylin and Eosin staining**



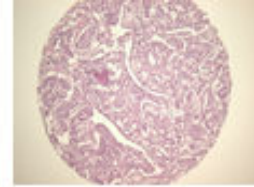
F4



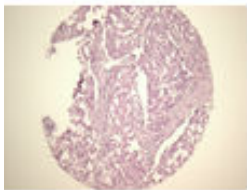
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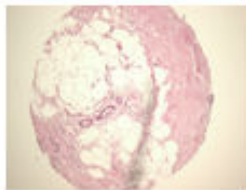
F6



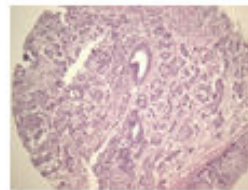
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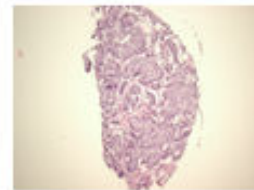
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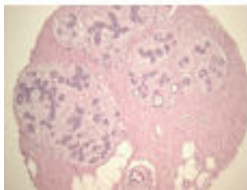
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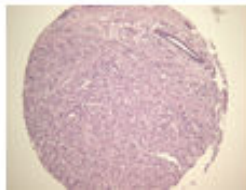
G1



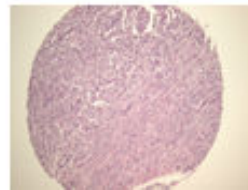
G2



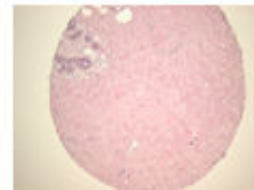
G3



G4



G5



G6

A312: Breast cancer tissues with corresponding normal tissues

No	Coordinate	Sex	Age	Key Word	Histological Diagnosis	
1	A	1,2	f	45	invasive ductal carcinoma	Breast, right, total mastectomy with SLNB: invasive ductal carcinoma 1) size: 2.8x1.9cm 2) Black's nuclear grade: 1 (poorly differentiated) 3) modified Bloom–Richardson's histological grade: III (tubule formation: 3, nuclear pleomorphism: 3, mitosis: 3) 4) intraductal component: 15% 5) resection margins: negative 6) vascular invasion: present 7) perineural invasion: absent 8) microcalcification: present in invasive cancer, in associated with benign epithelium, in stroma 9) ER(+), PR(+), C erb B2(weak +:2+/3+) 10) nipple and areola: free of tumor 12) overlying skin: free of tumor 13) underlying fascia: free of tumor 14) lymph node, sentinel(0/4), axillary(0/3), regional(0/2):(0/9): free of tumor.
2	A	3	f	45	non-neoplastic	non-neoplastic from A1,2
3	A	4,5	f	47	invasive ductal carcinoma	Breast, left, partial mastectomy: invasive ductal carcinoma 1) size: 1.9x1.6cm 2) Black's nuclear grade: 1 (poorly differentiated) 3) modified Bloom–Richardson's histological grade: III (tubule formation: 3, nuclear pleomorphism: 3, mitosis: 3) 4) intraductal component: less than 5% 5) resection margins: negative, distance to closest (relevant) margin: 3mm relevant margin is medial for the report of the margins) 6) vascular invasion: absent 7) perineural invasion: absent 8) microcalcification: present in associated with benign epithelium, in stroma 9) ER(-), PR(-), C erb B2(-:0+/3+) 10) overlying skin: free of tumor 11) lymph node, sentinel(0/1): free of tumor.
4	A	6	f	47	non-neoplastic	non-neoplastic from A4,5

A312: Breast cancer tissues with corresponding normal tissues

No	Coordinate	Sex	Age	Key Word	Histological Diagnosis
5	A 7,8	f	44	invasive ductal carcinoma	<p>Breast, right, modified radical mastectomy:</p> <p>1) multicentric invasive ductal carcinomas -1) size: 1.9x1.3cm 2) Black's nuclear grade: 2(moderately differentiated) 3) modified Bloom-Richardson's histological grade: II (tubule formation: 3, nuclear pleomorphism: 2, mitosis: 1) 4) intraductal component: less than 5% -1) size: 1.5x0.7cm 2) Black's nuclear grade: 2(moderately differentiated) 3) modified Bloom-Richardson's histological grade: I (tubule formation: 2, nuclear pleomorphism: 2, mitosis: 1) 4) intraductal component: less than 5%</p> <p>- resection margins: negative - vascular invasion: absent - perineural invasion: absent - microcalcification: present, in invasive cancer, in stroma - ER(+), PR(+), C erb B2(-: 0+/3+) - associated benign changes: fibrocystic change</p> <p>2) nipple and areola: free of tumor 3) overlying skin: free of tumor 4) underlying fascia: free of tumor 5) lymph node, separately submitted axillary(0/0), regional axillary (0/13): (0/13): free of tumor.</p>
6	A 9	f	44	non-neoplastic	non-neoplastic from A7,8

A312: Breast cancer tissues with corresponding normal tissues

No	Coordinate	Sex	Age	Key Word	Histological Diagnosis	
7	B	1,2	f	51	invasive ductal carcinoma	Breast, right, modified radical mastectomy: invasive ductal carcinoma 1) size: 4.5x3.6cm 2) Site: LUO quadrant, 2 o'clock area, 0cm away from the nipple 3) Black's nuclear grade: 1 (poorly differentiated) 4) modified Bloom–Richardson's histological grade: III (tubule formation: 3, nuclear pleomorphism: 3, mitosis: 3) 5) intraductal component: 5% or EIC:present 6) resection margins: negative, distance to closest(relevant) margin: 20mm, relevant margin is posterior 7) vascular invasion: absent 8) perineural invasion: absent 9) results of immunohistochemistry: ER(3+), PR(3+), C-erb B2(-: 1+/3+) 10) microcalcification: present in invasive cancer, in ductal carcinoma in situ 11) nipple and areola: free of tumor. 12) overlying skin: free of tumor. 13) underlying fascia: free of tumor.
8	B	3	f	51	non-neoplastic	non-neoplastic from B1,2
9	B	4,5	f	62	invasive ductal carcinoma	Breast, left, modified radical mastectomy: status incisional biopsy with residual invasive ductal carcinoma 1) size of the residual tumor: 2x1.8cm 2) site: LO quadrant 3) Black's nuclear grade: 1 (poorly differentiated) 4) modified Bloom–Richardson's histological grade: III (tubule formation: 3, nuclear pleomorphism: 3, mitosis: 3) 5) intraductal component: 10% 6) vascular invasion: present 7) perineural invasion: absent 8) microcalcification: present, in invasive cancer, In DCIS, in association with benign epithelium 10) immunohistochemistry: ER(-), PR(+), C erb B2(-: 0/3+) 11) nipple and areola: free of tumor. 12) lymph node, sentinel(2/2), axillary(2/24):(4/26): tumor metastasis in 4 out of 26 nodes.
10	B	6	f	62	non-neoplastic	non-neoplastic from B4,5

No	Coordinate	Sex	Age	Key Word	Histological Diagnosis	
11	B	7,8	f	59	invasive ductal carcinoma	Breast, left, partial mastectomy: invasive ductal carcinoma 1) size: 1.3x1.1cm 2) Black's nuclear grade: 2 (moderately differentiated) 3) modified Bloom–Richardson's histological grade: II (tubule formation: 3, nuclear pleomorphism: 2, mitosis: 2) 4) intraductal component: abscent 5) resection margins: negative 6) vascular invasion: present 7) perineural invasion: absent 8) microcalcification: present in invasive cancer and in associated with benign epithelium 9) ER(+), PR(+), C erb B2(-: 0+/3+) 10) nipple and areola: free of tumor 11) overlying skin: free of tumor 12) underlying fascia: free of tumor 13) lymph node, sentinel(0/2), regional(0/1):(0/3): free of tumor.
12	B	9	f	59	non–neoplastic	non–neoplastic from B7,8
13	C	1,2	f	46	invasive ductal carcinoma	Breast, left, partial mastectomy: invasive ductal carcinoma 1) size: 1.1x0.8cm 2) Black's nuclear grade: 1 (poorly differentiated) 3) modified Bloom–Richardson's histological grade: III (tubule formation: 3, nuclear pleomorphism: 3, mitosis: 2) 4) EIC: present 5) resection margins: negative 6) vascular invasion: absent 7) perineural invasion: absent 8) microcalcification: absent 9) immunohistochemistry: ER(+), PR(+), C erb B2(-:1+/3+) 10) radial scar, focal.
14	C	3	f	46	non–neoplastic	non–neoplastic from C1,2

A312: Breast cancer tissues with corresponding normal tissues

No	Coordinate	Sex	Age	Key Word	Histological Diagnosis	
15	C	4,5	f	41	invasive ductal carcinoma	<p>Breast, left, modified radical mastectomy:</p> <p>invasive ductal carcinoma</p> <ol style="list-style-type: none"> 1) size: 3x2cm 2) Black's nuclear grade: 1 (poorly differentiated) 3) modified Bloom–Richardson's histological grade: III (tubule formation: 3, nuclear pleomorphism: 3, mitosis: 3) 4) EIC:present 5) resection margins: negative 6) vascular invasion: present 7) perineural invasion: absent 8) microcalcification: present in invasive cancer and ductal carcinoma in situ 9) ER(focal +), PR(-), C erb B2(+:3+/3+) 10) Back ground ductal carcinoma in situ <ul style="list-style-type: none"> - nuclear grade: high - histologic grade: high - necrosis: present (comedo) - architecture type: cribriform, solid - extent of ductal carcinoma in situ: about 8x5cm - calcification: present in ductal carcinoma in situ - microinvasion: present 11) nipple and areola: free of tumor 12) overlying skin: free of tumor 13) underlying fascia: free of tumor 14) lymph node, axillary(2/31): tumor metastasis in 2 out of 31 nodes (with pericapsular tumor spread: largest size of tumor deposit: 3.3x2.5cm).
16	C	6	f	41	non-neoplastic	non-neoplastic from C4,5

No	Coordinate	Sex	Age	Key Word	Histological Diagnosis	
17	C	7,8	f	70	invasive ductal carcinoma	Breast, right, partial mastectomy: invasive ductal carcinoma 1) size: 1.5x1.3cm 2) Black's nuclear grade: 2 (moderately differentiated) 3) modified Bloom-Richardson's histological grade: III (tubule formation: 3, nuclear pleomorphism: 2, mitosis: 3) 4) intraductal component: EIC: present < 5% 5) resection margins: negative 6) vascular invasion: absent 7) perineural invasion: absent 8) microcalcification: absent 9) ER(+), PR(+), C erb B2(-:0/3+) 10) lymph node, sentinel(0/6): free of tumor.
18	C	9	f	70	non-neoplastic	non-neoplastic from C7,8
19	D	1,2	f	75	invasive ductal carcinoma	Breast, left, total mastectomy: invasive ductal carcinoma 1) size: 2.6x2.4cm 2) site: UO quadrant, 6cm away from the nipple 3) Black's nuclear grade: 1 (poorly differentiated) 4) modified Bloom-Richardson's histological grade: III (tubule formation: 2, nuclear pleomorphism: 3, mitosis: 3) 5) intraductal component: 5% 6) resection margins: negative 7) vascular invasion: absent 8) perineural invasion: absent 9) microcalcification: absent 10) associated benign changes: central tumor necrosis and fibrosis myxoid matrix formation 11) nipple and areola: free of tumor 12) overlying skin: free of tumor 13) underlying fascia: free of tumor 14) lymph node, axillary(1/16), separate node(0/0): Tumor metastasis in 1 out of 16 nodes.
20	D	3	f	75	non-neoplastic	non-neoplastic from D1,2

No	Coordinate	Sex	Age	Key Word	Histological Diagnosis	
21	D	4,5	f	26	invasive ductal carcinoma	Breast, left, partial mastectomy: invasive ductal carcinoma 1) size: 1.7cm 2) Black's nuclear grade: 1(poorly differentiated) 3) modified Bloom-Richardson's histological grade: III (tubule formation: 3, nuclear pleomorphism: 3, mitosis: 3) 4) intraductal component: 5% 5) resection margins: negative 6) vascular invasion: absent 7) perineural invasion: absent 8) microcalcification: present, In invasive cancer 9) ER(+), PR(+), C erb B2(-: 0/3+) 10) overlying skin: free of tumor 11) lymph node, axillary(0/25): free of tumor.
22	D	6	f	26	non-neoplastic	non-neoplastic from D4,5
23	D	7,8	f	49	invasive ductal carcinoma	Breast, left, partial mastectomy: invasive ductal carcinoma 1) size: 2.2x1.5x1.0cm 2) Black's nuclear grade: 2 (moderately differentiated) 3) modified Bloom-Richardson's histological grade: III (tubule formation: 3, nuclear pleomorphism: 2, mitosis: 3) 4) intraductal component: 15% 5) resection margins: negative (see F2007-2180 - 2185 for the report of the margins) 6) vascular invasion: present 7) perineural invasion: absent 8) microcalcification: absent 9) ER(+), PR(+), C erb B2(-:1/3 +) 10) lymph node, sentinel(0/1): free of tumor.
24	D	9	f	49	non-neoplastic	non-neoplastic from D7,8

A312: Breast cancer tissues with corresponding normal tissues

No	Coordinate	Sex	Age	Key Word	Histological Diagnosis
25	E 1,2	f	44	invasive ductal carcinoma	Breast, right, partial mastectomy: invasive ductal carcinoma 1) size: 2.1x1.8cm 2) Black's nuclear grade: 1 (poorly differentiated) 3) modified Bloom-Richardson's histological grade: III (tubule formation: 3, nuclear pleomorphism: 3, mitosis: 3) 4) intraductal component: 20% 5) resection margins: negative distance to closest (relevant) margin: 1mm relevant margin is posterior 6) vascular invasion: absent 7) perineural invasion: absent 8) microcalcification: present in ductal carcinoma in situ, in associated with benign epithelium 9) ER(+), PR(+), C erb B2(-:1+/3+), E-cadherin(+) 10) overlying skin: free of tumor 11) underlying fascia: free of tumor 12) lymph node, sentinel(0/1): free of tumor.
26	E 3	f	44	non-neoplastic	non-neoplastic from E1,2
27	E 4,5	f	68	invasive ductal carcinoma	Breast, left, partial mastectomy: invasive ductal carcinoma with squamous cell carcinomatous change (so called metaplastic carcinoma) 1) size: 3x2cm 2) site: LIC area, 9 o'clock area 3) Black's nuclear grade: 1(poorly differentiated) 4) modified Bloom-Richardson's histological grade: III (tubule formation: 3, nuclear pleomorphism: 3, mitosis: 3) 5) intraductal component: 10% 6) resection margins: positive in posterior margin 7) vascular invasion: absent 8) perineural invasion: present 9) microcalcification: absent 10) ER(-), PR(-), C erb B2(-:1+/3+) 11) overlying skin: free of tumor 12) underlying fascia: extension of tumor involving posterior resection margin 13) lymph node, sentinel(0/1): free of tumor.
28	E 6	f	68	non-neoplastic	non-neoplastic from E4,5

No	Coordinate	Sex	Age	Key Word	Histological Diagnosis	
29	E	7,8	f	45	invasive ductal carcinoma	<p>Breast, left, modified radical mastectomy:</p> <p>invasive ductal carcinoma</p> <ol style="list-style-type: none"> 1) size: 1.3x1.0cm 2) Black's nuclear grade: 2 (moderately differentiated) 3) modified Bloom-Richardson's histological grade: I (tubule formation: 1, nuclear pleomorphism: 2, mitosis: 1) 4) intraductal component: < 5% 5) resection margins: negative 6) vascular invasion: absent 7) perineural invasion: absent 8) microcalcification: present in invasive cancer, in ductal carcinoma in situ, in associated with benign epithelium, in stroma 9) ER(+), PR(+), C erb B2(-:0/3+) 10) ductal carcinoma in situ in the background <ul style="list-style-type: none"> - nuclear grade: low - histological grade: low - necrosis: absent - architectural types: micropapillary - extent of DCIS: approximately 4x3.5cm - microinvasion: absent 11) associated benign change: adenosis and papillomatosis 12) underlying fascia: free of tumor 13) lymph node, sentinel(0/3): free of tumor.
30	E	9	f	45	non-neoplastic	non-neoplastic from E7,8

A312: Breast cancer tissues with corresponding normal tissues

No	Coordinate	Sex	Age	Key Word	Histological Diagnosis
31	F 1,2	f	54	invasive ductal carcinoma	Breast, right, modified radical mastectomy: invasive ductal carcinoma 1) size: 2.2x1.3cm 2) Black's nuclear grade: 1 (poorly differentiated) 3) modified Bloom-Richardson's histological grade: III (tubule formation: 3, nuclear pleomorphism: 3, mitosis: 3) 4) EIC: positive 5) resection margins: Negative 6) vascular invasion: Absent 7) perineural invasion: Absent 8) microcalcification: Present in invasive cancer, in associated with benign epithelium, in stroma 9) ER(-), PR(-), C erb B2(-:0+/3+) 10) showing histologic changes of adjuvant chemotherapy 11) associated benign changes: fibroadenoma 12) nipple and areola: free of tumor 13) overlying skin: free of tumor 14) underlying fascia: free of tumor 15) lymph node, axillary(0/7): free of tumor.
32	F 3	f	54	non-neoplastic	non-neoplastic from F1,2
33	F 4,5	f	55	invasive ductal carcinoma	Breast, left, total mastectomy: invasive ductal carcinoma 1) size: 2.3x1.8cm 2) Black's nuclear grade: 1 (poorly differentiated) 3) modified Bloom-Richardson's histological grade: III (tubule formation: 3, nuclear pleomorphism: 3, mitosis: 3) 4) EIC: positive 5) resection margins: negative 6) vascular invasion: absent 7) perineural invasion: present 8) microcalcification: present in invasive cancer, in ductal carcinoma in situ, in associated with benign epithelium, in stroma 9) ER(-), PR(-), C erb B2(+:3+/3+) 10) nipple and areola: paget's disease. 11) overlying skin: free of tumor 12) underlying fascia: free of tumor 13) lymph node, sentinel(0/4):free of tumor.

No	Coordinate	Sex	Age	Key Word	Histological Diagnosis	
34	F	6	f	55	non-neoplastic	non-neoplastic from F4,5
35	F 7,8	f	57	invasive ductal carcinoma	<p>Breast, right, partial mastectomy:</p> <p>invasive ductal carcinoma</p> <ol style="list-style-type: none"> 1) size: 1.8x1.2cm 2) Black's nuclear grade: 2 (moderately differentiated) 3) modified Bloom-Richardson's histological grade: III (tubule formation: 3, nuclear pleomorphism: 2, mitosis: 3) 4) intraductal component: less than 5% 5) resection margins: negtive 6) vascular invasion: absent 7) perineural invasion: absent 8) microcalcification: absent 9) ER(-), PR(-), C erb B2(+:3+/3+) 10) lymph node, sentinel(0/1): free of tumor. 	
36	F	9	f	57	non-neoplastic	non-neoplastic from F7,8
37	G 1,2	f	35	invasive ductal carcinoma	<p>Breast, left, partial mastectomy:</p> <p>invasive ductal carcinoma mixed with mucinous carcinoma</p> <ol style="list-style-type: none"> 1) size: 2.2x1.8cm 2) Black's nuclear grade: 1 (poorly differentiated) 3) modified Bloom-Richardson's histological grade: III (tubule formation: 3, nuclear pleomorphism: 3, mitosis: 3) 4) intraductal component: no 5) resection margins: negative (See F2007-2085 - 2090 for the report margins) 6) vascular invasion: absent 7) perineural invasion: absent 8) microcalcification: present in invasive cancer, in associated with benign epithelium 9) ER(+), PR(+), C erb B2(-:0/3+) <p>Note: About 60-70% of the tumor consists of mucinous carcinoma and this case cannot be categories as pure mucinous carcinoma.</p>	
38	G	3	f	35	non-neoplastic	non-neoplastic from G1,2

A312: Breast cancer tissues with corresponding normal tissues

No	Coordinate	Sex	Age	Key Word	Histological Diagnosis
39	G 4,5	f	42	invasive ductal carcinoma	Breast, left, partial mastectomy: invasive ductal carcinoma 1) size: 1.4x1.3cm 2) Black's nuclear grade: 1 (poorly differentiated) 3) modified Bloom-Richardson's histological grade: III (tubule formation: 3, nuclear pleomorphism: 3, mitosis: 3) 4) intraductal component: < 5% 5) with areas of invasive micropapillary carcinoma 6) resection margins: negative 7) vascular invasion: present 8) perineural invasion: absent 9) microcalcification: absent 10) ER(+), PR(+), C erb B2(-:0/3+) 11) lymph node, sentinel (1/4), axillary (0/4): (1/8): tumor metastasis in one out of 8 nodes with focal perinodal tumor spread. (size of the metastatic tumor: 2x1mm).
40	G 6	f	42	non-neoplastic	non-neoplastic from G4,5