Specifications:

- No. of cases: 30
- Tissue type: Breast cancer tissues
- No. of spots: 2 spots from each cancer case (60 spots)
- Total spots: 60
- 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:
### Summary of tissue spots

<table>
<thead>
<tr>
<th>No</th>
<th>Coordinate</th>
<th>Sex</th>
<th>Age</th>
<th>Key Word</th>
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<tbody>
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<td>Phyllodes tumo</td>
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<tr>
<td>2</td>
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<td>58</td>
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<tr>
<td>3</td>
<td>A 5,6</td>
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<tr>
<td>30</td>
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A202VII- Breast cancer tissues

Hematoxylin and Eosin staining

QC sheet_LOT#122121009261
(formalin fixed)

A1                A2                A3               A4
A5                A6                A7               A8
A9               A10               B1               B2
B3                B4                B5               B6
B7                B8                B9              B10
C1               C2                C3               C4

For research use only
A202VII- Breast cancer tissues
(formalin fixed)
QC sheet_LOT#122121009261
Hematoxylin and Eosin staining

C5    C6    C7    C8
C9    C10   D1    D2
D3    D4    D5    D6
D7    D8    D9    D10
E1    E2    E3    E4
E5    E6    E7    E8
A202VII- Breast cancer tissues
(formalin fixed)

QC sheet_LOT#122121009261
Hematoxylin and Eosin staining

E9   E10   F1   F2
F3   F4   F5   F6
F7   F8   F9   F10
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<td>4</td>
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<td>Invasive ductal carcinoma</td>
<td>Breast, left, lumpectomy: Invasive lobular carcinoma.</td>
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</table>
| 6  | B 1,2      | f   | 57  | Invasive ductal carcinoma | Breast, left, palliative mastectomy:  
1. Infiltrating ductal carcinoma  
   1) Histologic grade: II.  
   2) Black’s nuclear grade: I  
   3) Extensive lymphatic invasion.  
   4) Intraductal component: less than 10%.  
   5) Multinodularity.  
3. Overlying skin: Superficial dermal invasion by the tumor.  
5. Lymph nodes, level I(9/23) and level II(2/2): Metastasis in 11 out of 25 lymph nodes (pN1biv).  
6. Result of immunohistochemical staining: ER(+), PR(-), C erb B2(-). |
| 7  | B 3,4      | f   | 51  | Cystosarcoma phyllodes    | Breast, left, excision: Cystosarcoma phyllodes, malignant, margins involved by neoplasm.                                                                                                                                 |
| 8  | B 5,6      | f   | 54  | Invasive ductal carcinoma | Breast, right, modified radical mastectomy:  
1. Infiltrating ductal carcinoma  
   1) Black’s nuclear grade II(poorly differentiated).  
   2) modified Bloom and Richardson’s histological grade III (tubule formation:III, nuclear pleomorphism:III, mitosis:II).  
   3) no vascular invasion.  
5. Regional lymph node, axillary(0/18), level III(0/5):(0/23): Free of tumor.  
6. Result of immunohistochemical staining: ER(+), PR(+), C erb B2(-). |
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<tbody>
<tr>
<td>9</td>
<td>B 7,8</td>
<td>f</td>
<td>75</td>
<td>Invasive ductal carcinoma</td>
<td>Breast, left, radical mastectomy: 1. Infiltrating ductal carcinoma 1) size: 5x4x3cm 2) Black’s nuclear grade III (well differentiated) 3) Modified Bloom–Richardson’s histological grade I (tubule formation: III, nuclear pleomorphism: I, mitosis: I) 4) No vascular invasion 5) Deep fascial margin involved by tumor 6) No intraductal component 2. Nipple and areola: Free of tumor. 3. Overlying skin: Free of tumor. 4. Regional lymph node, axillary(0/16), level II(0/2):(0/18): Free of tumor. 5. Result of immunohistochemical stains: ER(+), PR(+), C-erb B2(−).</td>
</tr>
<tr>
<td>10</td>
<td>B 9,10</td>
<td>f</td>
<td>54</td>
<td>Invasive ductal carcinoma</td>
<td>Breast, left, modified radical mastectomy: 1. Infiltrating ductal carcinoma 1) Black’s nuclear grade II (moderately differentiated) 2) Modified Bloom–Richardson’s histological grade I (tubule formation I, nuclear pleomorphism II, mitosis: I) 3) Areas of tubular carcinoma and cribriform carcinoma 4) Associated with extensive ductal carcinoma in situ (micropapillary, clining type) and columnar cell changes 2. Nipple and areola: Dermal involvement of infiltrating ductal carcinoma. 3. Underlying fascia: Involvement of ductal carcinoma in situ. 4. Regional lymph node, axillary(0/16), level II(0/4):(0/22): Free of tumor. 5. Result of immunohistochemical stains: ER(−), PR(−), C-erb B2(−).</td>
</tr>
<tr>
<td>11</td>
<td>C 1,2</td>
<td>f</td>
<td>59</td>
<td>Invasive ductal carcinoma</td>
<td>Breast, left, mastectomy: Infiltrating ductal carcinoma 1) Bloom–Richardson’s histological grade I (tubule formation: II, pleomorphism: II, mitosis I) 2) mass size: 1.7x1.3cm 3) intraductal component: about 20%. 4) Results of immunohistochemical staining: ER(+), PR(+), C-erb B2(−).</td>
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| 12 | C 3,4 f    | 56  |     | Invasive ductal carcinoma | Breast, left, modified radical mastectomy: 1. Infiltrating ductal carcinoma  
1) Black’s nuclear grade II (poorly differentiated)  
3) Occasional lymphovascular permeation  
4) Prominent ductal carcinoma in situ component (about 70% of the firm mass): comedocarcinoma.  
5) Ductal carcinoma in situ is present within less than 1mm from deep margin  
5. Regional lymph node, axillary(4/11), level II+III(0/3):(4/14): Tumor metastasis in 4 out of 14 nodes (pN1biii: extension of tumor beyond the capsule of a lymph node, metastasis less than 2.0cm in greatest dimension).  
| 13 | C 5,6 f    | 52  |     | Invasive ductal carcinoma | Breast, left, modified radical mastectomy: 1. Infiltrating ductal carcinoma  
1) size: 5x3.5x2.5cm  
2) Black’s nuclear grade I (poorly differentiated)  
4) Occasional lymphatic permeation  
5) Prominent perineural invasion  
6) Intraductal component < 5%  
5. Regional lymph nodes, axillary(12/19), level II(2/2):(14/21): Tumor metastasis in 14 out of 21 nodes with extensive extranodal tumor extension (pN1bii).  
<table>
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<tr>
<th>No</th>
<th>Coordinate</th>
<th>Sex</th>
<th>Age</th>
<th>Key Word</th>
<th>Histological Diagnosis</th>
</tr>
</thead>
</table>
| 14 | C 7,8      | f   | 54  | Invasive ductal carcinoma | Breast, left, modified radical mastectomy:  
1. Infiltrating ductal carcinoma  
   1) nuclear grade III (well differentiated), Histologic grade I.  
   2) Intraductal component: 10–15%.  
5. Lymph nodes, axillary(6/14): Tumor metastasis to 6 out of 14 lymph nodes with perinodal soft tissue ension(pN1bii).  
6. Lymph nodes, unlabelled(0/5): Free of tumor.  
| 15 | C 9,10     | f   | 42  | Invasive ductal carcinoma | Breast, right, modified radical mastectomy:  
1. Infiltrating ductal carcinoma  
   1) size: see note.  
   2) Black’s nuclear grade I (poorly differentiated)  
   3) Modified Bloom–Richardson’s histological grade II(tubule formation: II, nuclear pleomorphism: III, mitosis: II)  
   4) Frequent bizarre nuclear change and stromal fibrosis, due to previous chemotherapy  
   5) No lymphatic permeation  
   6) Intraductal component: less than 15%  
   7) Focal involvement of deep dermis of the skin  
   8) Focal extension to skeletal muscle  
4. Regional lymph nodes: axillary(6/6), level II+III(2/2):(8/8): Tumor metastasis in all 8 nodes (pN2: Metastasis to ipsilateral axillary lymph nodes that are fixed to one another with extensive perinodal structure).  
5. Results of immunohistochemistry: ER(+), PR(+), C erb B2(−). |
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<th>Key Word</th>
<th>Histological Diagnosis</th>
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| 16 | D 1,2 f    | 56  | Invasive ductal carcinoma | Breast, left, modified radical mastectomy:  
1. Infiltrating ductal carcinoma,  
   1) Black’s nuclear grade I (poorly differentiated)  
   3) Extensive intraductal component (EIC) positive  
   4) No lymphatic permeation  
5. Regional lymph node, axillary (24/32), level 2 (0/1), level 3 (1/2): (25/35): Metastatic adenocarcinoma in 25 out of 35 nodes (pN1biii: extranodal extension and metastasis < 2cm).  
| 17 | D 3,4 f    | 40  | Invasive ductal carcinoma | Breast, left, lumpectomy:  
Infiltrating ductal carcinoma  
1) nuclear grade I (poorly differentiated)  
2) Histologic grade III without intraductal component.  
3) Resection margins, all circumference and base: Free of tumor.  
4) Immunohistochemical staining results: ER, PR, C-erb B2: Negative. |
| 18 | D 5,6 f    | 67  | Invasive ductal carcinoma | Breast, left, frozen excision:  
1. Infiltrating ductal carcinoma,  
   1) nuclear grade II, Histologic grade I with intraductal component, 10%.  
   2) Immunohistochemical stain results: ER, PR: positive, C-erb B2: negative |
| 19 | D 7,8 f    | 44  | Invasive ductal carcinoma | Breast, left, partial mastectomy:  
Infiltrating ductal carcinoma  
1) size: 2.8x2.5x2cm  
2) Bloom–Richardson’s histologic grade III  
3) expanding growth  
4) vascular invasion  
5) intact basal resection margin (safety margin: less than 1mm)  
6) immunohistochemical staining: Positive reactions for ER and PR, Negative reaction for C-erb B2. |
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</tr>
</thead>
</table>
| 20 | D 9,10     | f   | 46  | Invasive ductal carcinoma | Breast, left, modified radical mastectomy: 1. Infiltrating ductal carcinoma  
2) Modified Bloom–Richardson’s histological grade: II (moderately differentiated)  
3) Black’s nuclear grade: 2 (moderately differentiated)  
4) extensive lymphovascular invasion  
5) extension to the anterior (fibroadipose) margin.  
2. Nipple and areola: Focal direct invasion to the subdermal layer.  
4. Underlying fascia: Tumor’s involvement.  
5. Regional lymph nodes: Metastatic carcinoma in 3 out of 8 lymph nodes (3/8), in detail, level II(0/1), level III(0/1), axillary lymph nodes(3/6).  
| 21 | E 1,2      | f   | 31  | Atypical medullary carcinoma | Breast, left, radical mastectomy:  
1. Atypical medullary carcinoma  
5. Regional lymph nodes, axillary(0/44), level III(0/7);(0/51): Free of tumor.  
6. Results of immunohistochemistry: ER(-), PR(-), C erb B2(-). |
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</thead>
</table>
| 22 | E 3,4      | f   | 60  | Invasive ductal carcinoma | Breast, left, modified radical mastectomy:  
  1. Infiltrating ductal carcinoma  
  1) modified Bloom and Richardson's histological grade: III  
  (tubule formation: II, nuclear pleomorphism: III, mitotic activity: III)  
  2) Black's nuclear grade: I  
  3) occasional vascular invasion  
  4) no intraductal component  
  5) size of the tumor: 6x4.5x2.3cm  
  6) surrounding parenchyme: papillomatosis  
  5. Lymph nodes, axillary (2/17): Metastasis in 2 out of 17 nodes.  
  6. Result of immunohistochemical stain: ER(-), PR(+), C erb B2(2+/3) |
| 23 | E 5,6      | f   | 43  | Invasive ductal carcinoma | Breast, left, partial mastectomy:  
  1. Infiltrating ductal carcinoma  
  1) Black's nuclear grade: I  
  3) lymphatic invasion  
  4) intraductal component: less than 5%  
  5) Result of immunohistochemical staining: ER(-), PR(-), C erb B2(3+) |
| 24 | E 7,8      | f   | 41  | invasive ductal carcinoma | Breast with axillary fat pad, right, modified radical mastectomy:  
  Infiltrating ductal carcinoma  
  1) size: 7x3.5x3cm  
  2) Black nuclear grade 1 and Bloom–Richardson grade III  
  3) component of ductal carcinoma in situ: about 30%  
  4) immunoeexpression: Progesterone and estrogen receptors: negative reactions  
  C–erb B2: equivocal positive reaction  
  5) intact nipple and areola, overlying skin and underlying fascia from tumor  
  6) metastasis to 10 out of 38 axillary lymph nodes |
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</tr>
</thead>
</table>
| 25 | E 9,10     | f   | 50  | Invasive ductal carcinoma | Breast, left, modified radical mastectomy:  
1. Size: 6cm  
2. Site: 12 o’clock area  
3. Black’s nuclear grade: 1(poorly differentiated)  
5. Intraductal component: 5%  
6. Resection margins: Negative  
7. Vascular invasion: Present  
8. Perineural invasion: Absent  
9. Microcalcification: Absent  
Nipple and areola: Free of tumor  
Overlying skin: Dermal involvement by the tumor  
Underlying fascia: Free of tumor  
Lymph node, axillary(4/25): Tumor metastasis in 4 out of 25 nodes with pericapsular tumor spread.  
Result of immunohistochemical stains: ER(−), PR(−), C erb B2(−: 1+/3+). |
| 26 | F 1,2      | f   | 41  | Invasive ductal carcinoma | Breast, right, modified radical mastectomy:  
1. Size: 4.3x1.6cm in the largest one  
2. Black’s nuclear grade: 2(moderately differentiated)  
4. Intraductal component: 0%  
5. Vascular invasion: Present  
6. Perineural invasion: Absent  
7. Microcalcification: Present in invasive cancer  
8. Immunohistochemistry: ER(+), PR(+), C erb B2(−:0/3+)  
Nipple and areola: Free of tumor.  
Overlying skin: Involvement by invasive carcinoma.  
Underlying fascia: Free of tumor.  
Lymph node, axillary(0/0), supraclavicular(3/4), level III(0/0): (3/4): Tumor metastasis in 3 out of 4 lymph nodes with extensive perinodal tumor spread. |
**A202VII: Breast cancer tissues**

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</table>
| 27 | 3,4        | f   | 45  | Inv. ductal carcinoma | Breast, left, modified radical mastectomy:  
1. Size: 3x2cm  
2. Black's nuclear grade: I (poorly differentiated)  
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. Immunohistochemistry: ER(focal +), PR(-), C erb B2(+;3+/3+)  
10. Back ground ductal carcinoma in situ  
   1) Nuclear grade: high  
   2) Histologic grade: high  
   3) Necrosis: Present (comedo)  
   4) Architecture type: Cribriform, solid  
   5) Extent of ductal carcinoma in situ: about 8x5cm  
   6) Calcification: Present in ductal carcinoma in situ  
   7) Microinvasion: Present  
Nipple and areola: Free of tumor.  
Overlying skin: Free of tumor.  
Underlying fascia: Free of tumor.  
Lymph node, axillary(2/31): Tumor metastasis in 2 out of 31 nodes (with pericapslar tumor spread: largest size of tumor deposit: 3.3x2.5cm) |
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</table>
| 28 | F 5,6 f    | 52  |     | invasive ductal carcinoma | Breast, left, partial mastectomy: Invasive ductal carcinoma  
1. Size: 2.8x1.9cm  
2. Black's nuclear grade: II (moderately differentiated)  
4. Intraductal component: EIC: present  
5. Resection margins: Negative  
6. Vascular invasion: Absent  
7. Perineural invasion: Absent  
8. Microcalcification: Absent  
Lymph node, sentinel(0/2): Free of tumor. |
| 29 | F 7,8 f    | 50  |     | invasive ductal carcinoma | Breast, right, skin sparing total mastectomy: Invasive ductal carcinoma  
1. Size: 3x3x2cm  
2. Black's nuclear grade: I (poorly differentiated)  
4. EIC: Present  
5. Resection margins: Negative  
6. Vascular invasion: Absent  
7. Perineural invasion: Absent  
8. Microcalcification: Present in association with benign epithelium  
Overlying skin: Free of tumor.  
Underlying fascia: Free of tumor.  
Lymph node, axillary(0/3): Free of tumor.  
Breast, labelled as "subareolar subcutaneous tissue", excision: Free of tumor.  
Result of immunohistochemical stains: ER(+), PR(+), C erb B2(weak+: 2+/3+) |
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| 30 | F 9,10     | f   | 39  | Invasive ductal carcinoma | Breast, left (upper outer), partial mastectomy:  
Invasive ductal carcinoma mixed with mucinous carcinoma  
1. Size: 2x1cm  
2. Black’s nuclear grade: II (moderately differentiated)  
4. Intraductal component: No  
5. Resection margins: Negative  
6. Vascular invasion: Present  
7. Perineural invasion: Absent  
8. Microcalcification: Absent  
9. Immunohistochemistry: ER(+), PR(+), C erb B2(-:1+/3+), Synaptophysin (focal +), chromogranin(-), NSE(-)  
Lymph node, sentinel (1/1), axillary (4/18); (5/19): Tumor metastasis in 5 out of 19 nodes. (size of the largest metastatic tumor: 1.8x1.5 cm) with perinodal tumor spread  
*Note: About 40-50% of the tumor consists of mucinous carcinoma.  

*Detailed histology