Supplementary Table 1: Demographic and clinical characteristics in patients with breast cancer ($n = 438$).

| Characteristics                      | $N$  | Percentage |
|--------------------------------------|------|------------|
| Age at diagnosis                     |      |            |
| ≤40 years                            | 100  | 22.8       |
| 41–59 years                          | 293  | 66.9       |
| ≥60 years                            | 45   | 10.3       |
| Tumor location                       |      |            |
| Left                                 | 235  | 53.7       |
| Right                                | 202  | 46.1       |
| Both                                 | 1    | 0.2        |
| Menopausal status at diagnosis       |      |            |
| Premenopausal                        | 279  | 63.7       |
| Postmenopausal                       | 159  | 36.3       |
| Past history                         |      |            |
| Hypertension                         | 73   | 16.7       |
| Diabetes mellitus                    | 27   | 6.2        |
| Benign tumor                         | 142  | 32.4       |
| No                                   | 227  | 51.8       |
| TNM stage                            |      |            |
| I                                     | 90   | 20.5       |
| II                                    | 321  | 73.3       |
| III                                   | 23   | 5.3        |
| Pathology type                       |      |            |
| Ductal cancer                        | 419  | 95.7       |
| Lobular cancer                       | 11   | 2.5        |
| Mucinous Cancer                      | 3    | 0.7        |
| Other                                | 5    | 1.1        |
| Unknown                              | 4    | 0.9        |
| ER status                            |      |            |
| Negative                             | 143  | 32.6       |
| Positive                             | 287  | 65.5       |
| Unknown                              | 8    | 1.8        |
| PR status                            |      |            |
| Negative                             | 156  | 35.6       |
| Positive                             | 274  | 62.6       |
| Unknown                              | 8    | 1.8        |
| HER2 status                          |      |            |
| Negative                             | 316  | 72.1       |
| Positive                             | 112  | 25.6       |
| Unknown                              | 10   | 2.3        |
| Surgery                              |      |            |
| Procedure         | Count | Percentage |
|-------------------|-------|------------|
| Mastectomy        | 303   | 69.2       |
| Lumpectomy        | 135   | 30.8       |
| Lymph nodes status |       |            |
| Negative          | 151   | 34.5       |
| Positive          | 287   | 65.5       |

TNM: Tumor, node, metastasis.