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| **Table S1: Details of tissue samples used in the study** |
| **Sample name**  | **Age** | **Gender** | **Menopausal stage** |  **BMI** | **Additional information****(race, body site, histology type, etc..)** |
| KTB200 | 36 |  F |  Pre |  22.8 | White, breast, normal tissue |
| KTB201 | 31 |  F |  Pre |  25.8 | White, breast, normal tissue |
| KTB202 | 38 |  F |  Pre |  23.6 | White, breast, normal tissue |
| KTB205 | 20 |  F |  Pre |  27.7 | White, breast, normal tissue |
| KTB203 | 25 |  F |  Pre |  31.5 | AFRNAMER/Hispanic, breast, normal tissue |
| KTB204 | 55 |  F |  Pre |  41 | White/Hispanic, breast, normal tissue |
| KTB251-PA | 55 |  F |  Post |  22.5 | White/Hispanic, Protective alleles, breast, normal tissue |
| KTB250-PA | 37 |  F |  Pre |  34.6 | White/Hispanic, Protective alleles, breast, normal tissue |
| BRCA1-02 | 45 |  F |  |  | White,BRCA1+, breast, infiltrating/invasive ductal carcinoma |
| BRCA1-01 | 35 |  F |  |  | White,BRCA1+, breast, benign tissue |
| BRCA2-02 | 43 |  F |  |  | White, BRCA 2+, breast, benign tissue  |
| BRCA2-01 | 32 |  F |  |  | White,BRCA2+, breast, benign tissue |
| BRCA2-03-RB | 38 |  F |  |  | White,BRCA2+, breast, normal tissue |
| BRCA2-03-LB | 38 |  F |  |  | White,BRCA2+, breast, infiltrating/invasive ductal carcinoma |
| BR300-T | 57 |  F |  | 28.4 | White, ER+/PR-, breast, infiltrating/invasive ductal and lobular carcinoma |
| BR302-T | 44 |  F |  | 38.0 | White ,ER+/PR+, breast, infiltrating/invasive carcinoma |
| BR302-N | 44 |  F |  | 38.0 | White, ER+/PR+, breast, normal adjacent |
| BR301-T |  44 |  F |  |  25.2 | Non Hispanic/White ,ER+/PR+, breast, carcinoma NOS, primary cancer |
| BR303-T |  44 |  F |  |  30.8 | African American, TNBC, breast, infiltrating/invasive ductal carcinoma |
| OV353-MT |  51 |  F |  |  | White, Ascites fluid from ovary, granulosa cell tumor NOS |
| OV351-MT |  61 |  F |  Post |  | White, Ascites fluid from fallopian tube, serous carcinoma |
| OV352-MT |  54 |  F |  Post |  | White, Ascites fluid from ovary, serous carcinoma |
| PAN354-MT |  51 |  M |  N.A. |  | White, Pancreas, neuroendocrine carcinoma |

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