**Table S8** Statistical Significance of Gene Expression Differences across Subclasses of Breast Cancer

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Comparison | Statistical significance | | | | | | |
| **VEGFA** | **BRCA1** | **RAD51** | **CCNB1** | **CHECK1** | **CDK1** | **XRCC4** |
| Normal-vs-Luminal | 9.54791801177635E-15 | <1E-12 | <1E-12 | 1.62436730732907E-12 | <1E-12 | 1.62447832963153E-12 | <1E-12 |
| Normal-vs-HER2 Positive | 1.64920999999874E-05 | 1.350900E-04 | 1.65178981603731E-12 | 7.1741501628253E-12 | 4.36380000023995E-07 | 1.64368518795754E-12 | 2.833800E-02 |
| Normal-vs-TNBC | 1.81170001223308E-09 | 2.94809732181989E-11 | 1.62447832963153E-12 | <1E-12 | <1E-12 | <1E-12 | 2.220200E-01 |
| Luminal-vs-HER2 Positive | 9.795900E-03 | 2.792000E-01 | 1.315610E-03 | 8.575200E-03 | 4.163300E-03 | 1.669590E-02 | 5.759900E-02 |
| Luminal-vs-TNBC | 2.994500E-04 | 6.330200E-01 | 3.24700044629367E-10 | 3.07459613324568E-11 | 1.62458935193399E-12 | 1.61350044436404E-10 | 3.81340004018682E-09 |
| HER2 Positive-vs-TNBC | 5.703600E-01 | 4.650800E-01 | 4.319700E-02 | 2.268200E-01 | 7.983200E-03 | 4.620400E-03 | 1.263640E-01 |