Table S1. TCGA sample information

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| **Clinical trials** | **type** | **sample number** |
| Stage\_T | T1 | 276 |
| T2 | 627 |
| T3 | 134 |
| T4 | 37 |
| T5 | 1 |
| T6 | 1 |
| TX | 3 |
| Stage\_N | N0 | 512 |
| N1 | 355 |
| N2 | 117 |
| N3 | 76 |
| NX | 19 |
| Stage\_M | M0 | 899 |
| M1 | 20 |
| MX | 160 |
| Stage | I | 182 |
| II | 617 |
| III | 247 |
| IV | 20 |
| X | 13 |
| ER | Indeterminate | 2 |
| Negative | 232 |
| Not\_Evaluated | 48 |
| Positive | 797 |
| PR | Indeterminate | 4 |
| Negative | 337 |
| Not\_Evaluated | 49 |
| Positive | 689 |
| HER | Negative | 936 |
| Not\_Available | 65 |
| Positive | 78 |
| TNBC | Non | 876 |
| Not\_Available | 9 |
| Yes | 194 |
| Age | <=60 | 590 |
| >60 | 489 |