**Breast Cancer Proteomic Data**

Gene names were used to integrate two datasets.

**Gamez-Pozo et al. Data**

“The acquired raw MS data were processed by MaxQuant (version 1.2.7.4), followed by protein identification using the integrated Andromeda search engine. Spectra were searched against a UniProtKB/Swiss-Prot database for human (73,849 entries), including a set of 260 common protein contaminants (NCBI taxonomy ID 9606, downloaded on December 13, 2011). Reversing the protein sequences was chosen as decoy option in MaxQuant. Carbamidomethylation of cysteine was set as fixed modification, while oxidation (M), deamidation (N, Q), and N-terminal protein acetylation were set as variable. Enzyme specificity was set to trypsin/P allowing a minimal peptide length of seven amino acids and a maximum of two missed cleavages. Precursor tolerance was set to 20 ppm, while fragment was set to 0.5 Da. The maximum false discovery rate (FDR) was set to 0.01 for peptides and 0.05 for proteins. Label-free quantification was performed by setting a 2-minute window for match between runs. The protein abundance was calculated on the basis of the normalized spectral protein intensity (LFQ intensity). Quantifiable proteins were defined as those detected in at least 75% of samples in at least one type of sample (either ER. or TNBC samples) showing two or more unique peptides. Only quantifiable proteins were considered for subsequent analyses. Protein expression data were log2 transformed and missing values were replaced using data imputation for label-free data using default values. Finally, protein expression values were z-score transformed. Batch effects were estimated and corrected. All the MS raw data files acquired in this study may be downloaded from Chorus (http://chorusproject.org) under the project” – From Gamez-Pozo, A. et al. (2015)

**CPTAC Data**

The CPTACT Common Data Analysis Pipeline (CDAP) was used. See the details at

<https://cptac-data-portal.georgetown.edu/cptac/documents/CDAP_Results_Overview_rev_09152014.pdf>

or

<https://cptac-data-portal.georgetown.edu/cptac/aboutData/show?scope=dataLevels>