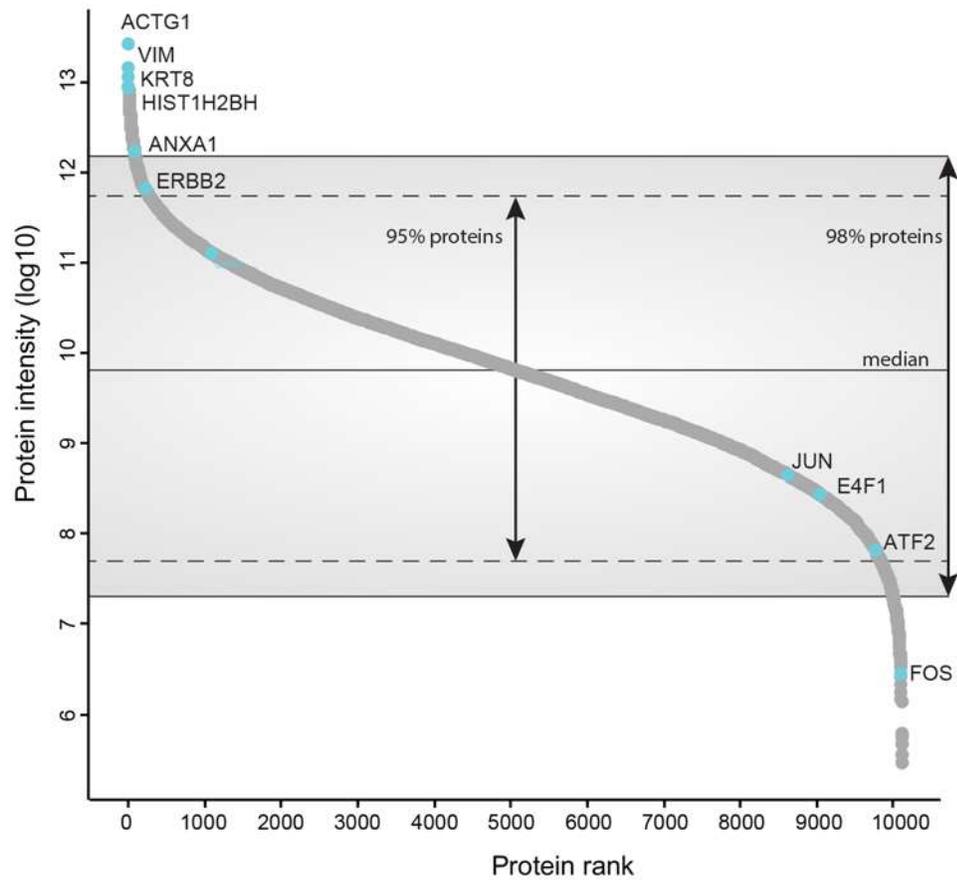
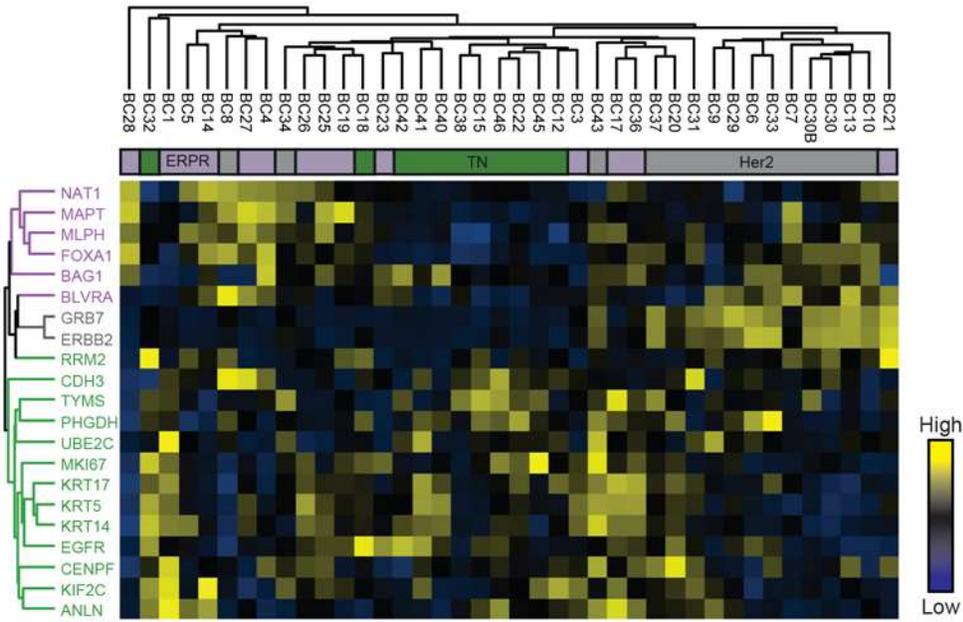


Supplementary Figure 1



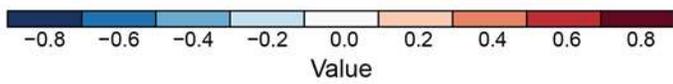
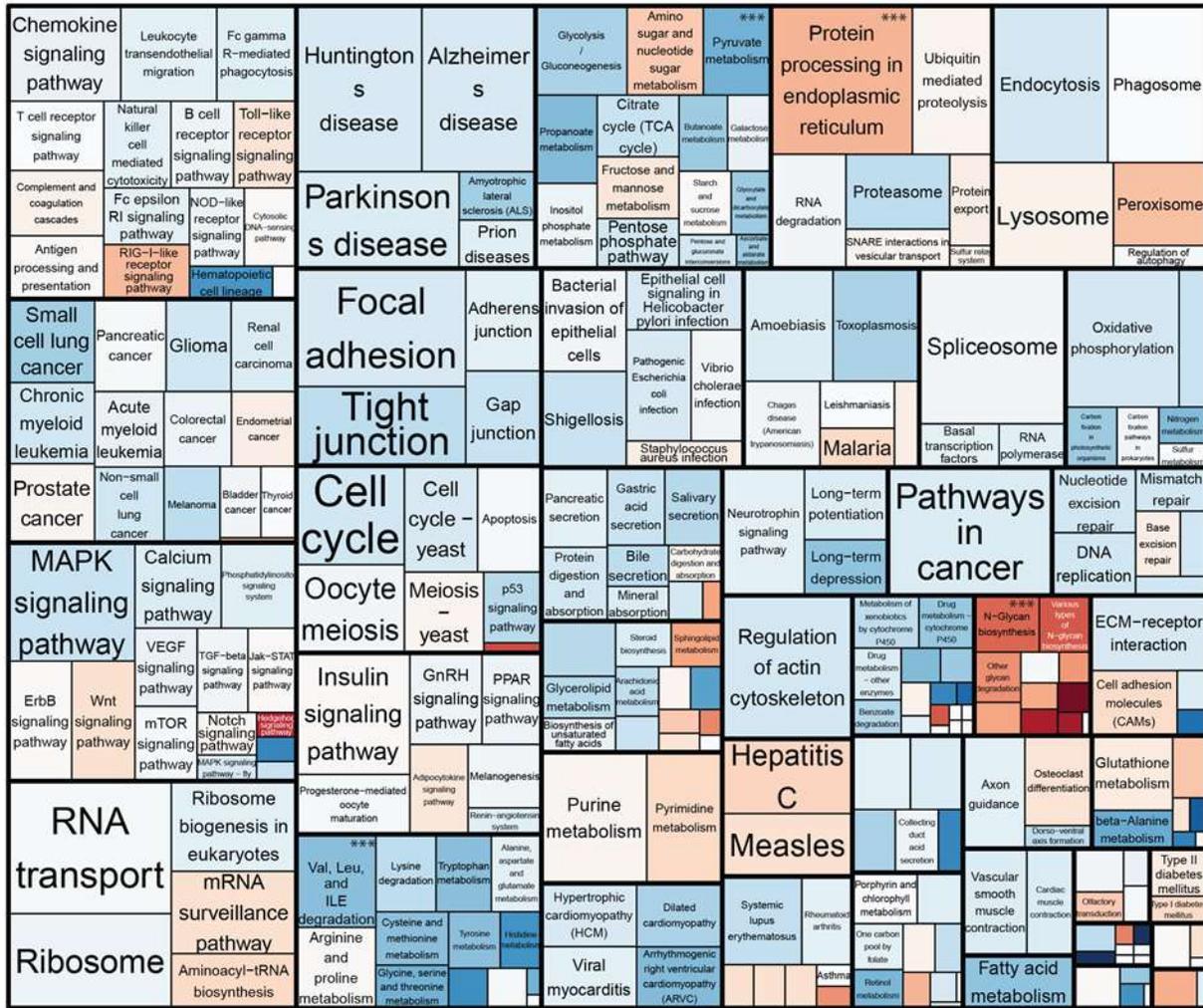
Supplementary Figure 1. Abundance curve of proteins. Ranking of protein abundances shows that the overall distribution of protein abundances spans eight orders of magnitude. Nevertheless, the vast majority of the proteins (95%) are within a range of four orders of magnitude.

Supplementary Figure 2

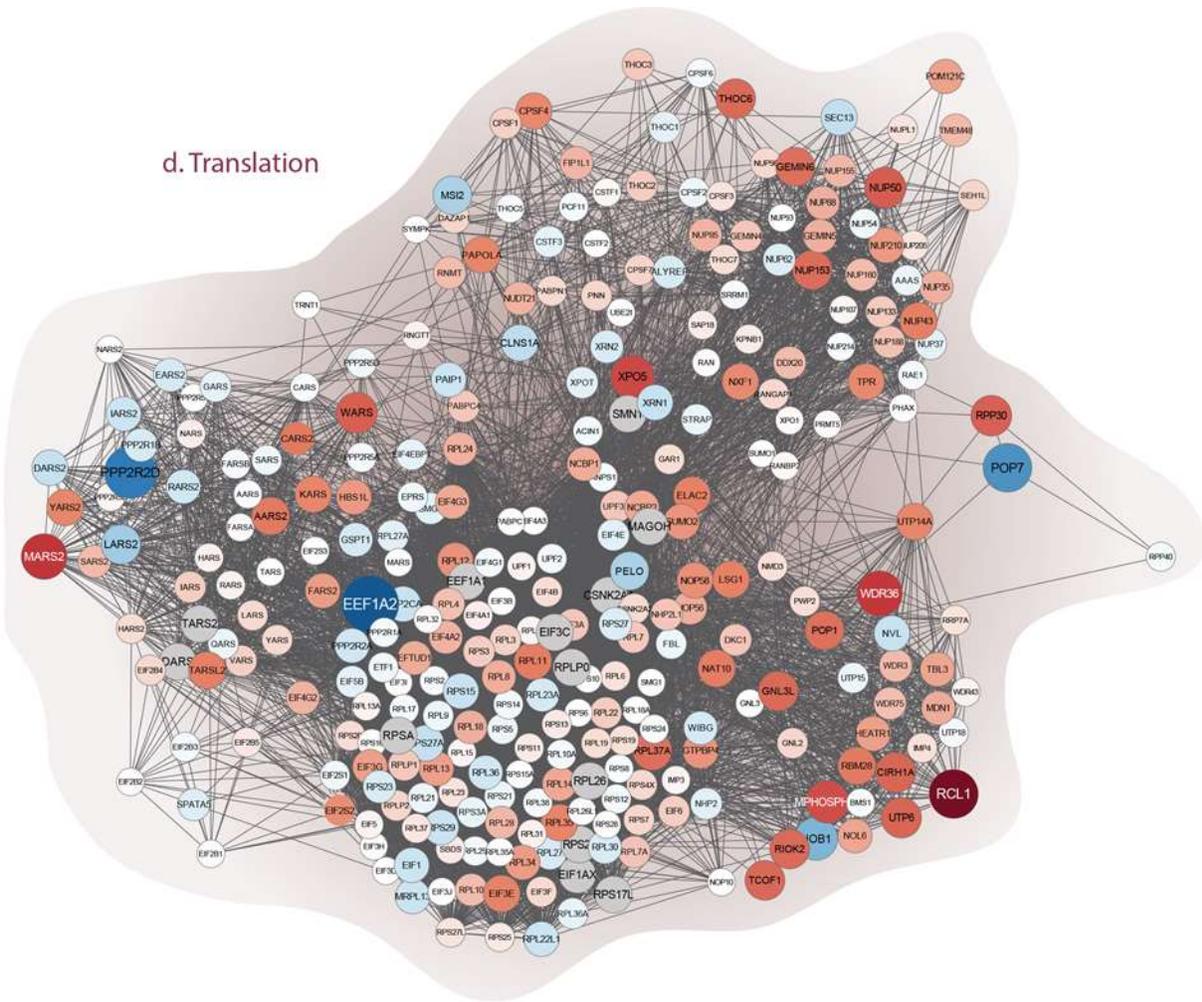


Supplementary Figure 2. Protein expression of the PAM50 genes. Hierarchical clustering of the protein levels (normalized ratio towards the super-SILAC mix). PAM50 genes enable partial segregation of classical subtypes on the protein level. Color code for gene names: purple- ER, gray- Her2, green-TN.

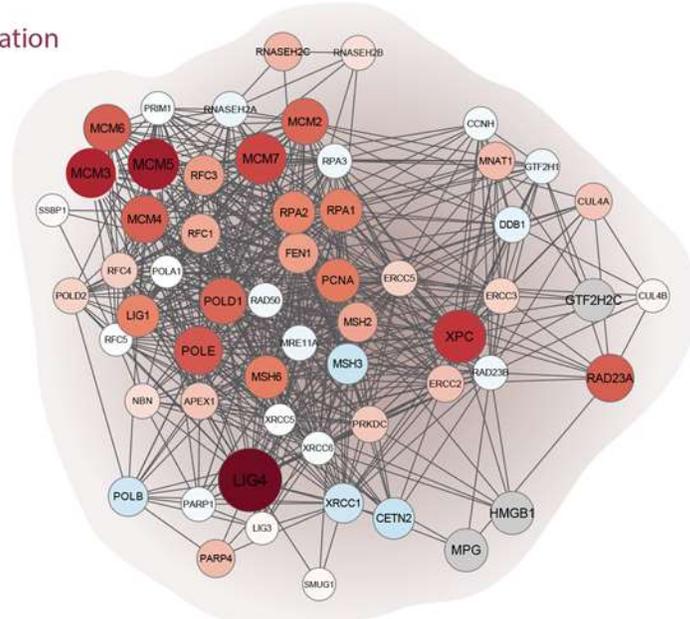
b.Her2



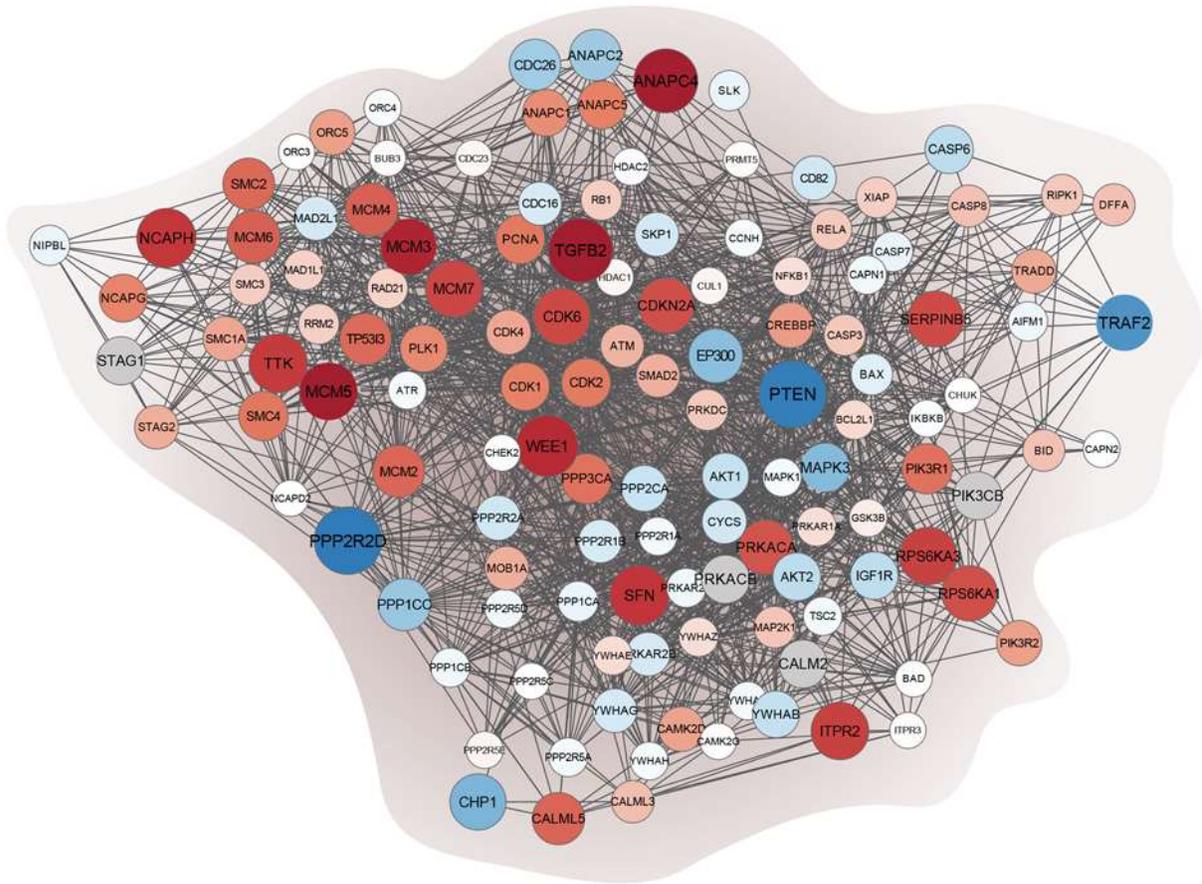
d. Translation



e. Replication

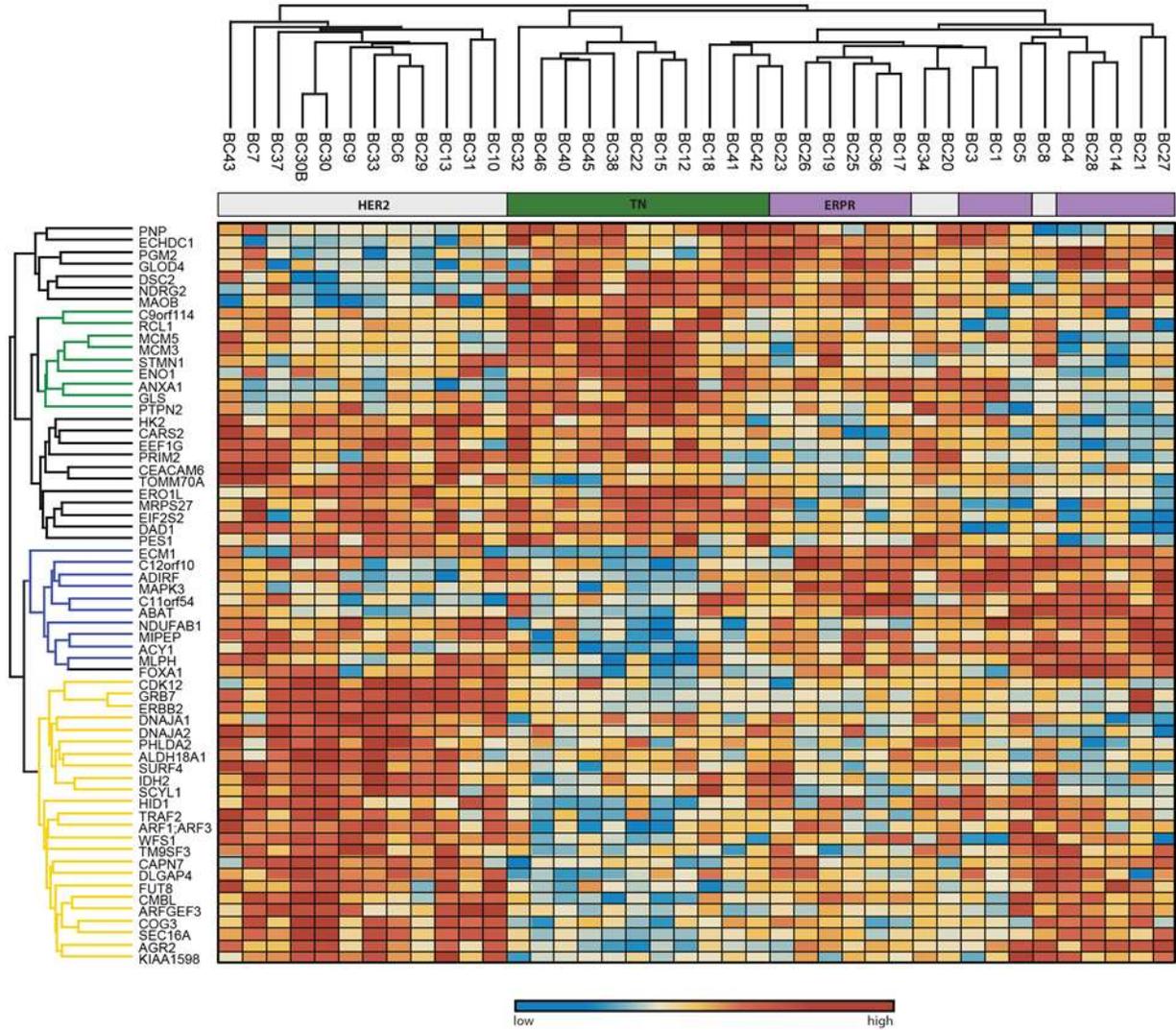


f. Cell growth and death



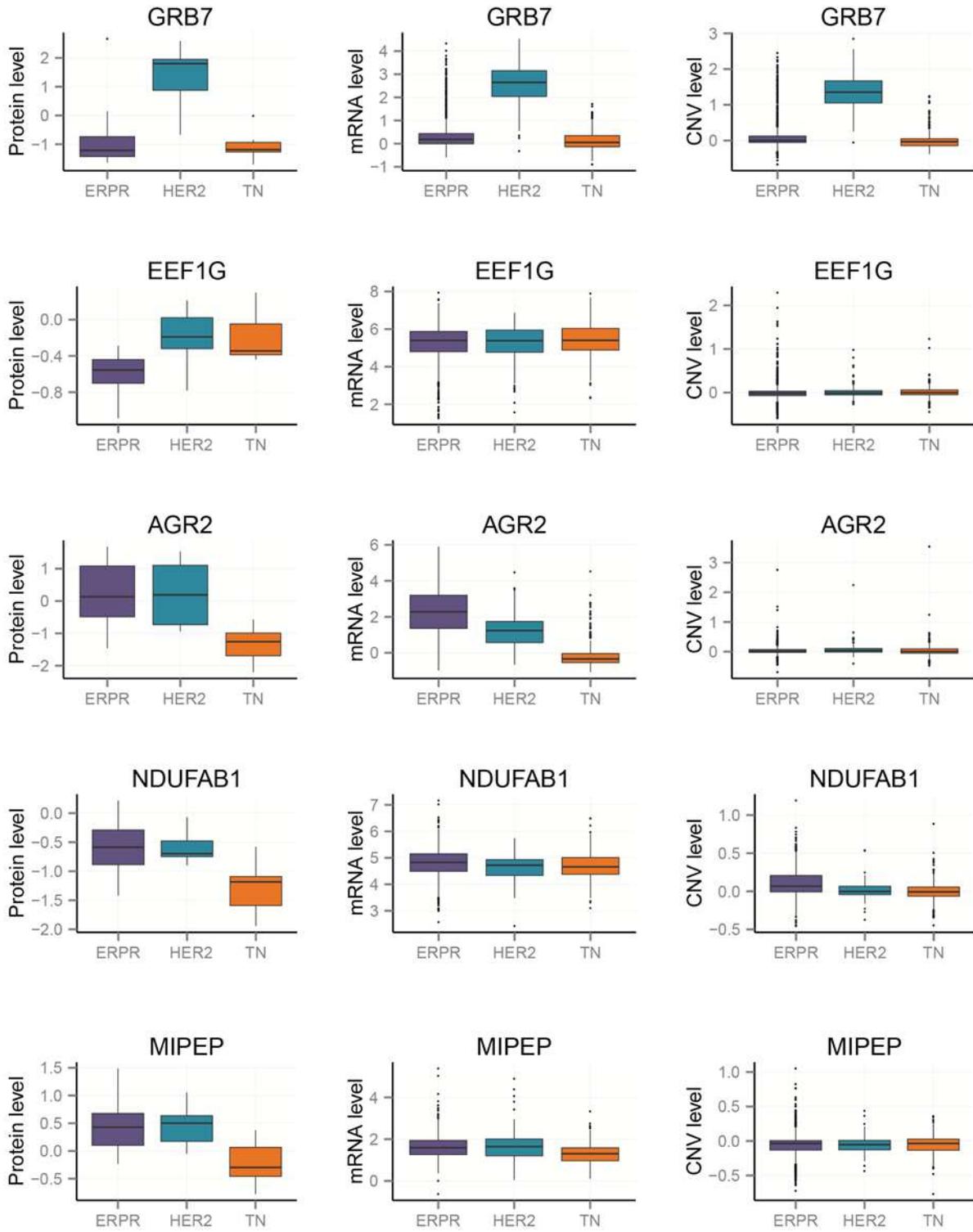
Supplementary Figure 4. Protein-protein interaction networks of enriched KEGG categories with differential subtype expression. The networks were constructed in String (www.string-db.org). The color of the nodes corresponds to the protein expression fold change between a particular subtype and the two other subtypes; red indicates higher expression and blue – lower expression in the selected subtype. The size of the nodes corresponds to the absolute protein expression fold change. **a.** Glycan biosynthesis and metabolism has higher average expression in the Her2 subtype relative to the ERPR and TN; Cellular community **(b)** and Amino acid metabolism **(c)** KEGG categories with lower average expression in the Her2 subtype; Translation **(d)**, Replication **(e)** and Cell growth and Death **(f)** KEGG categories with higher average expression in the TN subtype relative to ERPR and Her2.

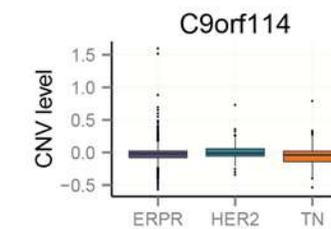
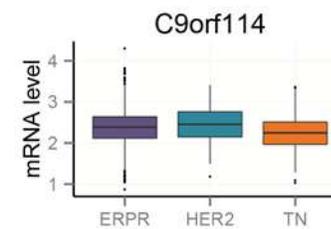
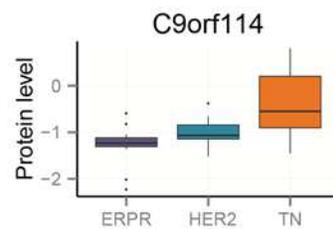
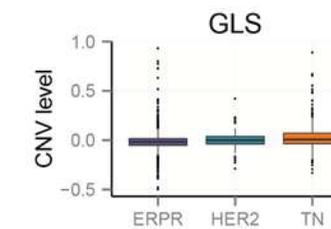
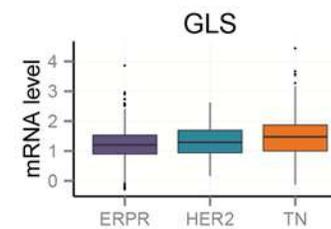
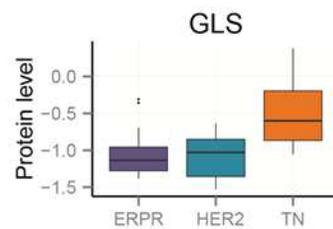
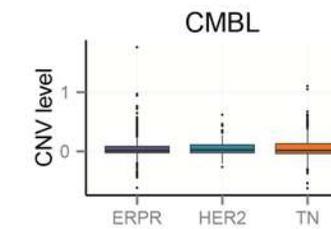
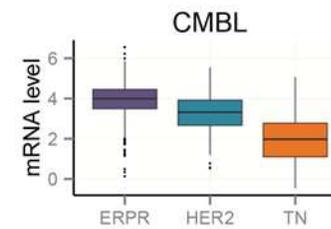
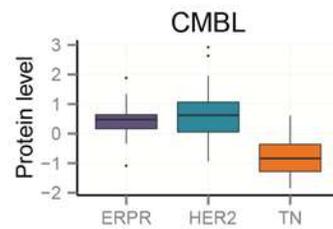
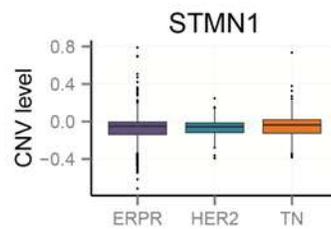
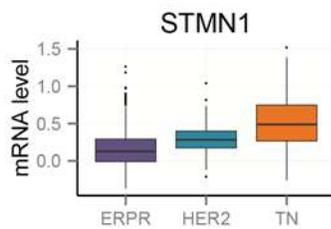
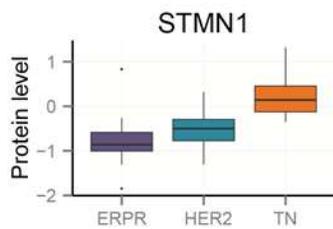
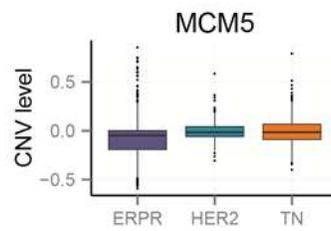
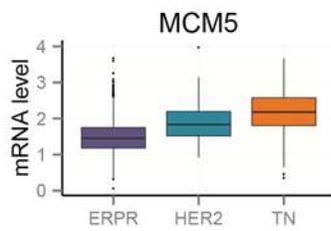
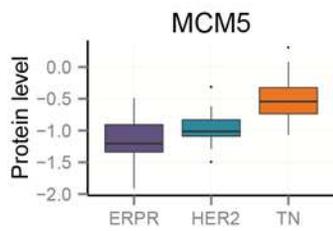
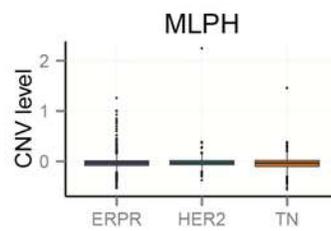
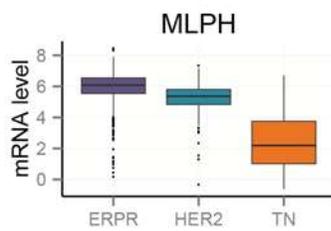
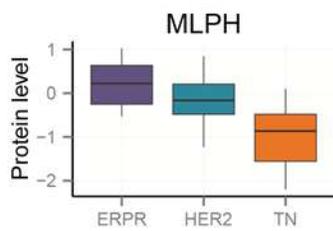
Supplementary Figure 5

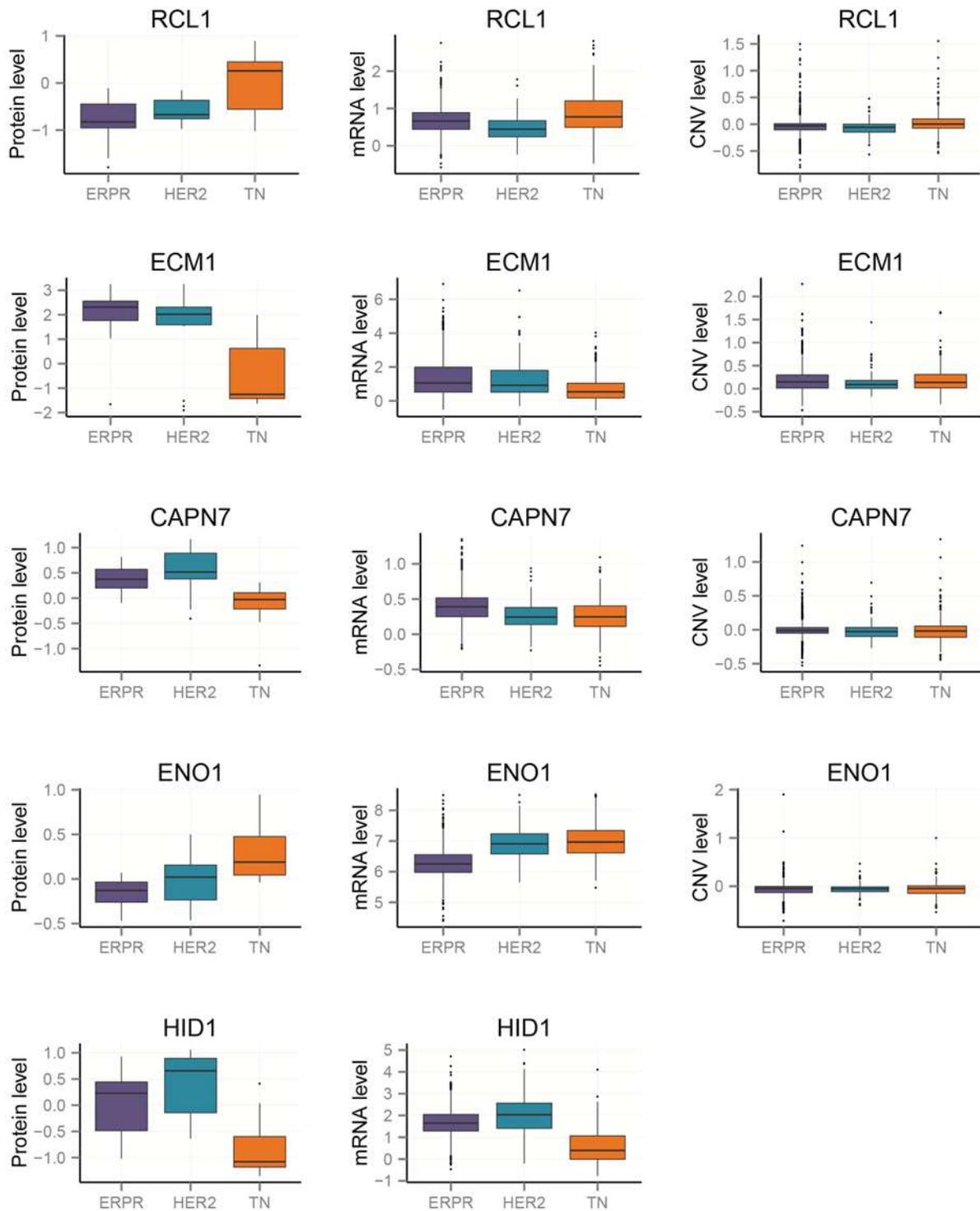


Supplementary Figure 5. Hierarchical clustering of differentially-expressed proteins. Differentially expressed proteins between the three cancer subtypes were identified with ANOVA analysis and permutation-based FDR of 5%. The proteins are colored according to their expression level. Subtype-specific clusters can be distinguished marked in (yellow: Her2, green: TN and blue: ERPR) on the row cluster tree. Cross-subtype clusters are shown in (black).

Supplementary Figure 6







Supplementary Figure 6: Comparison of protein expression, mRNA expression and CNV distributions in each subtype for all signature proteins (excluding those shown in Figure 6).

Supplementary Table 1

Sample #	Clinical classification	TNM stage	Grade	Type
1	ERPR	T1bN0M0	1	IDC
3	ERPR	T2N1M0	3	IDC
4	ERPR	T1cN0M0	2	IDC
5	ERPR	T1aN0M0	2	IDC
6	HER2	T2N1M0	3	IDC
7	HER2	T2N0M0	3	IDC
8	HER2	T1bN0M0	3	IDC
9	HER2	T2N0M0	2	IDC
10	HER2	T2N1M0	3	IDC
12	TN	T2N0M0	3	IDC
13	HER2	n.d	3	IDC
14	ERPR	n.d	1	IDC-Tu
15	TN	T2N0M0	3	IDC
17	ERPR	T2N1M0	3	IDC
18	TN	T2N0M0	3	IDC
19	ERPR	T2N1M0	3	IDC
20	HER2	T2N1M0	2	IDC
21	ERPR, Her2	T1cN1M0	3	IDC
22	TN	T2N0M0	3	IDC
23	ERPR	T1cN1M0	2	Lo
25	ERPR	T1cN1M0	2	IDC
26	ERPR	T2N1M0	2	Lo
27	ERPR	T2N0M0	3	IDC
28	ERPR	T1cN1M0	2	Lo
29	HER2	T2N1M0	2	IDC
30	HER2	T2N0M0	3	IDC
30B	HER2	T4N0M0	3	IDC
31	HER2	T2N2M0	3	IDC
32	TN	T2N1M0	3	IDC
33	HER2	T2N1M0	3	IDC
34	HER2	T2N1M0	3	IDC
36	ERPR, Her2	T2N0M0	3	IDC
37	HER2	T1cN0M0	3	IDC
38	TN	T1cN0M0	3	IDC
40	TN	T2N1M0	3	IDC
41	TN	T2N0M0	3	IDC
42	TN	T1cN0M0	3	IDC
43	HER2	T2N3M0	3	IDC
45	TN	T1cN0M0	3	IDC
46	TN	T2N0M0	3	IDC

Supplementary Table 1. Description of clinical samples. Information includes the tumor type, clinical subtype, tumor grade and stage for each tumor.