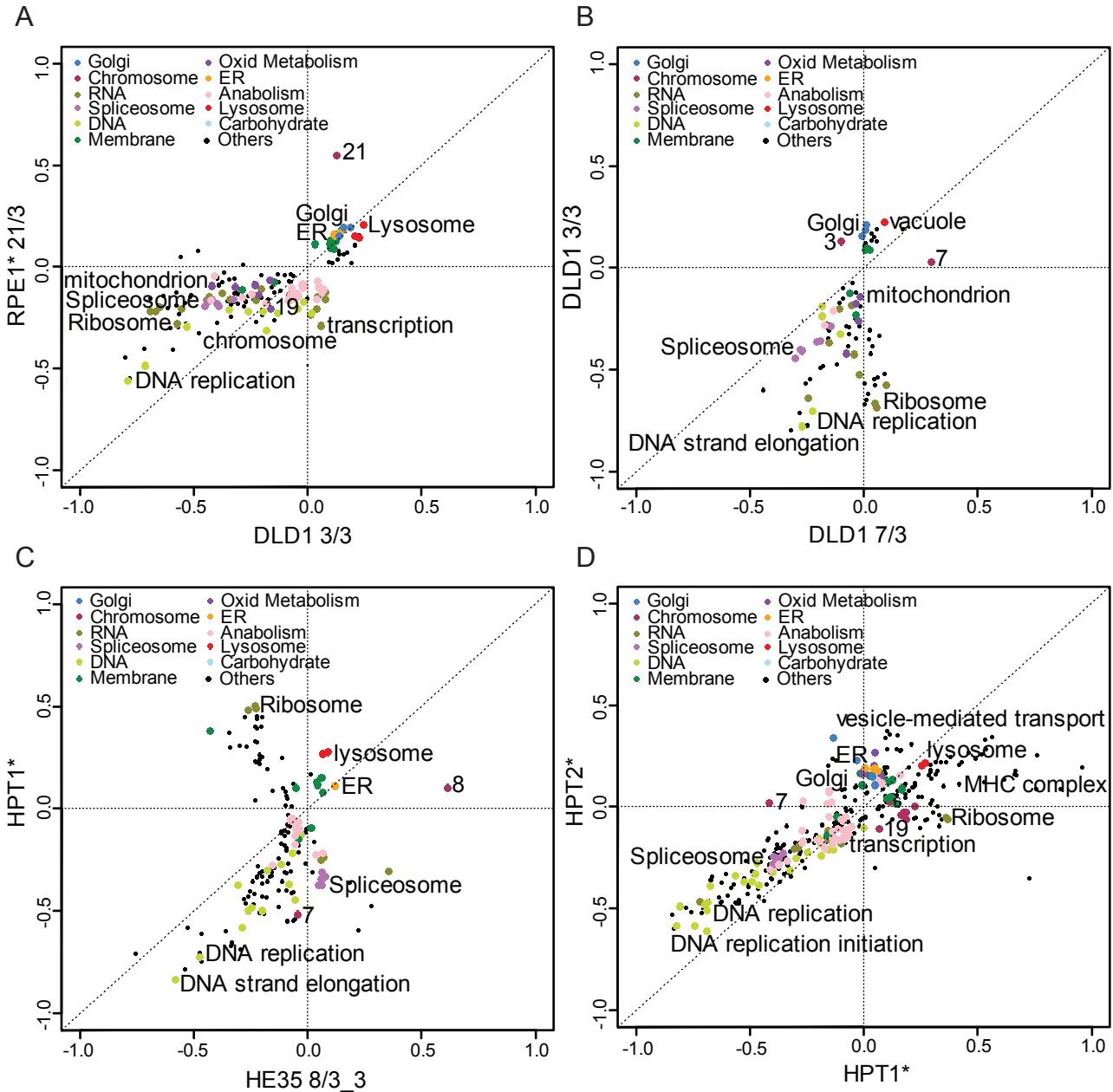




Supplementary Figure 1
Dürubaum et al.

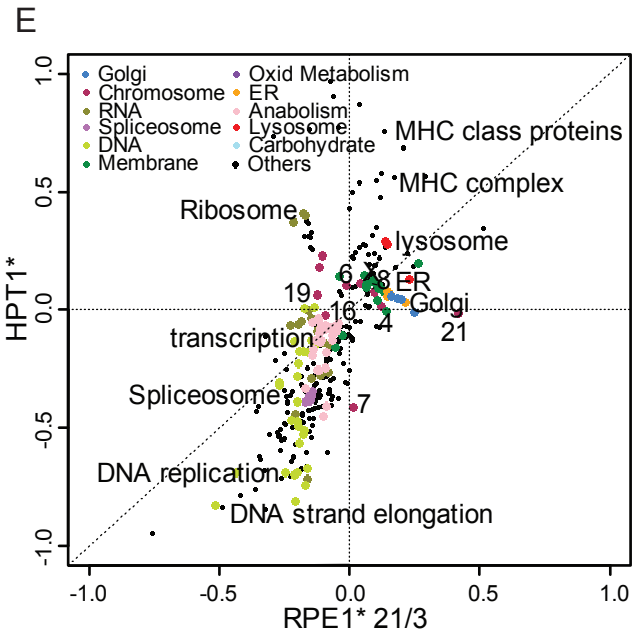


Figure S1. Significantly altered pathways in aneuploid model cell lines.

2- dimensional pathway analysis comparison of **A.** RPE1* with trisomy of chromosome 21 and DLD1 with trisomy of chromosome 3. **B.** DLD1 with trisomy of chromosome 13 and DLD1 with trisomy of chromosome 7. **C.** HCT116- derived complex aneuploid cell line HPT1* and HE35 with trisomy of chromosome 8, clone 3. **D.** HCT116- derived complex aneuploid cell line HPT2* and HPT1*. **E.** HCT116- derived complex aneuploid cell line HPT1* and RPE* with trisomy of chromosome 21. Asterisks indicate the cell lines with H2B-GFP.

Supplementary Figure 1
Dürrbaum et al.

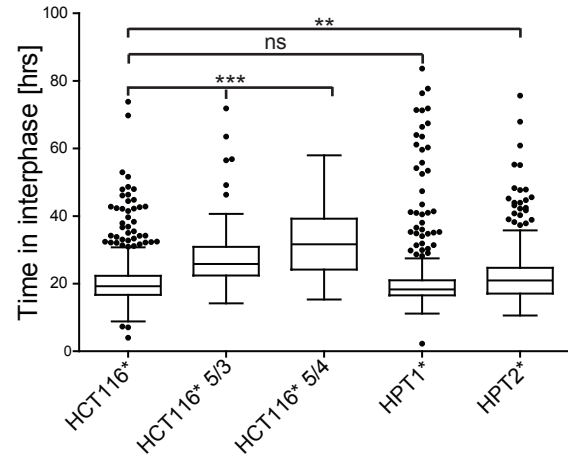
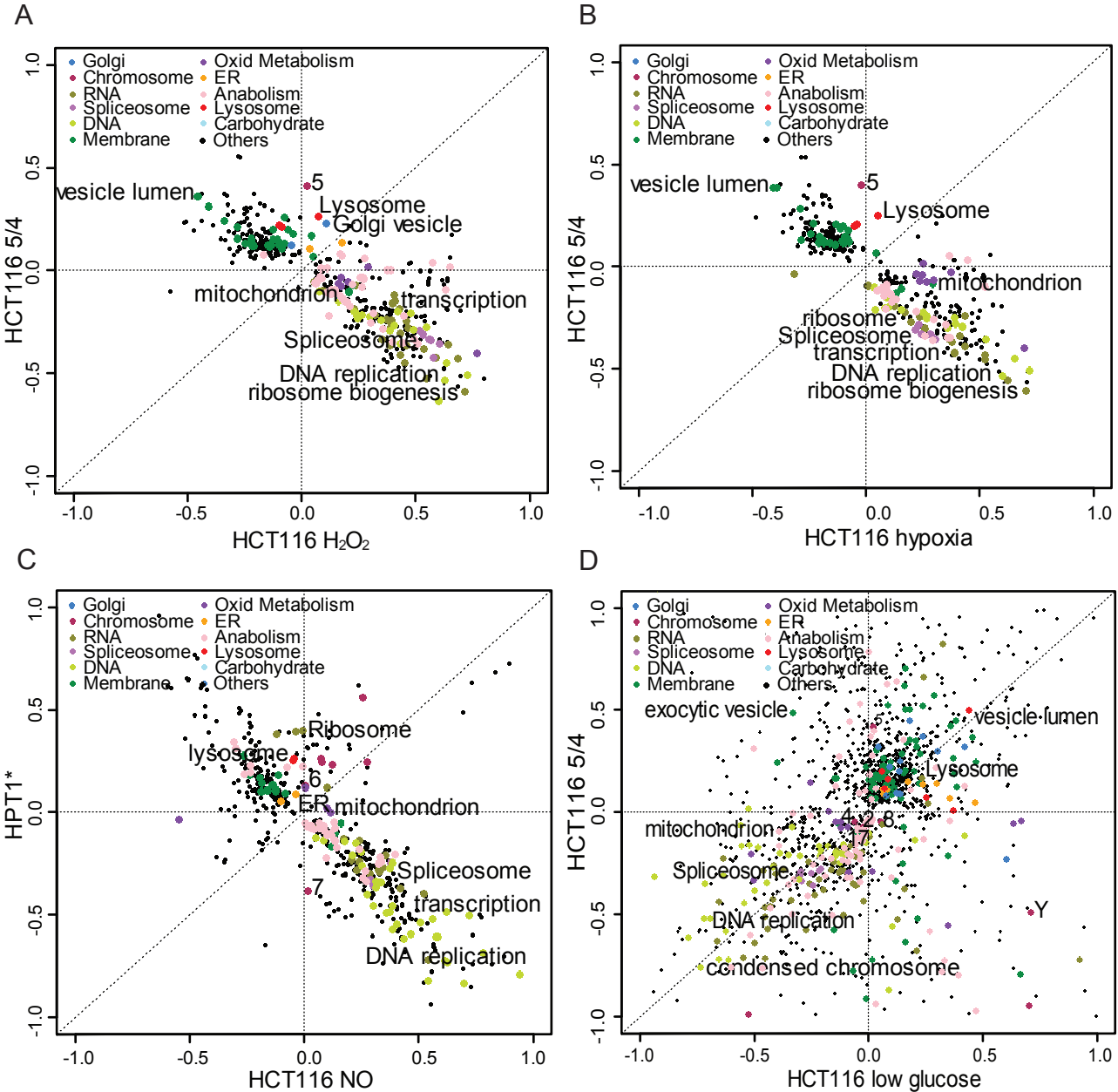


Figure S2. Time in interphase of the HCT116*- derived cell lines.

Time in interphase of the HCT116* derived cell lines with tri- and tetrasomy of chromosome 5 and with complex aneuploidy (HPT1*, HPT2*) compared to the diploid HCT116* cell line. Significance was calculated by applying one-way ANOVA test with Bonferroni's correction for multiple comparisons (ns= $P > 0.05$, * = $P \leq 0.05$, ** = $P \leq 0.01$, *** = $P \leq 0.001$). Asterisks indicate the cell lines with H2B-GFP.

Supplementary Figure 2
Dürrbaum et al.



Supplementary Figure 3
Dürbaum et al.

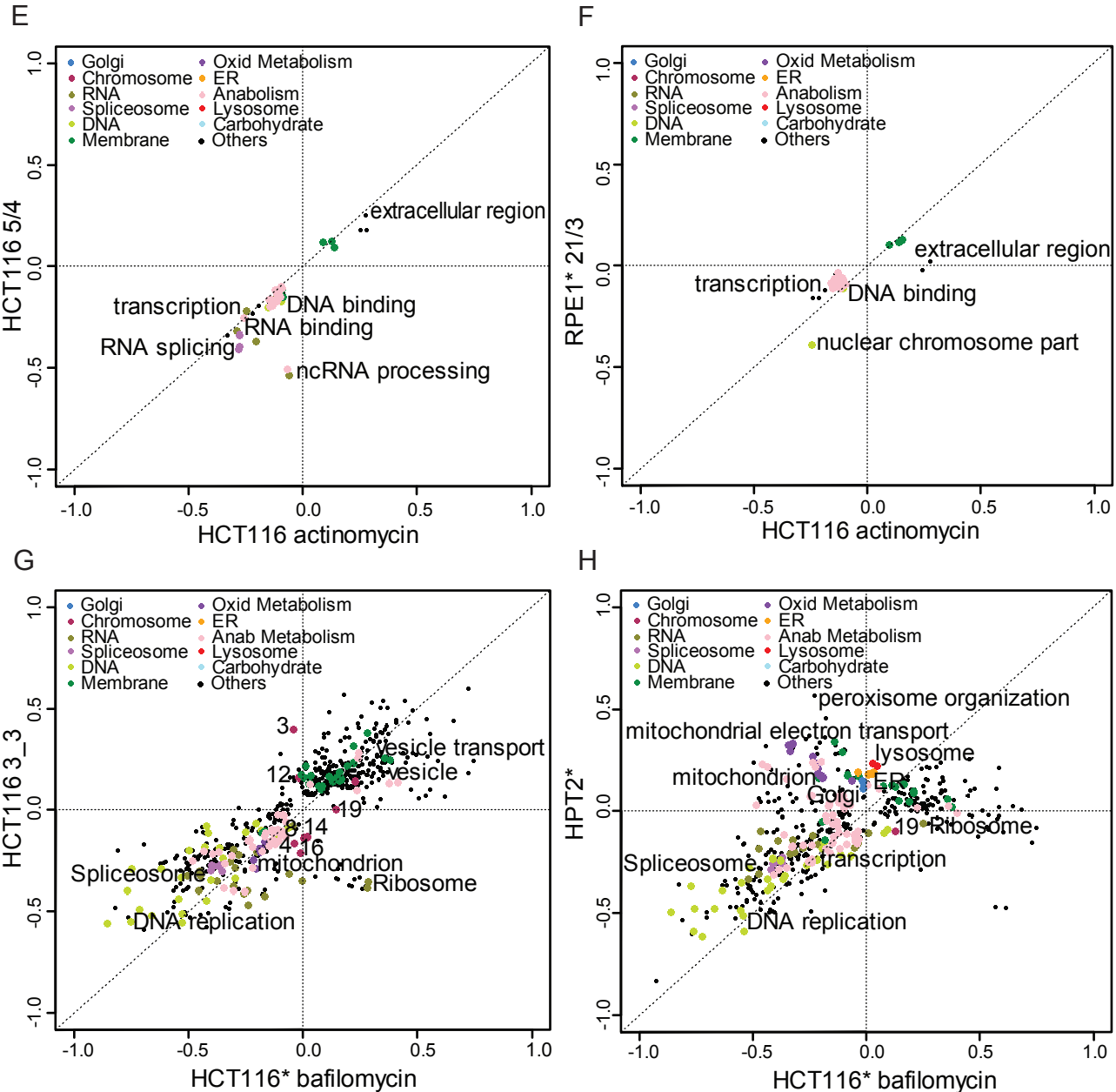


Figure S3. Significantly altered pathways in response to stress stimuli compared to the ARP. 2-dimensional pathway analysis comparison of **A.** HCT116 with tetrasomy of chromosome 5 and HCT116 treated with hydrogen peroxide (H₂O₂). **B.** HCT116 with tetrasomy of chromosome 5 and HCT116 grown under hypoxic conditions. **C.** HCT116-derived complex aneuploid HPT1* and HCT116 treated with nitric oxide (NO). **D.** HCT116 with tetrasomy of chromosome 5 and HCT116 grown in medium with low glucose. **E.** HCT116 with tetrasomy of chromosome 5 and HCT116 treated with actinomycin. **F.** RPE1 with trisomy of chromosome 21 and HCT116 treated with actinomycin. **G.** HCT116 with trisomy of chromosome 3 and HCT116 treated with bafilomycin. **H.** HCT116-derived complex aneuploid HPT2* and HCT116 treated with bafilomycin. Asterisks indicate the cell lines with H2B-GFP.