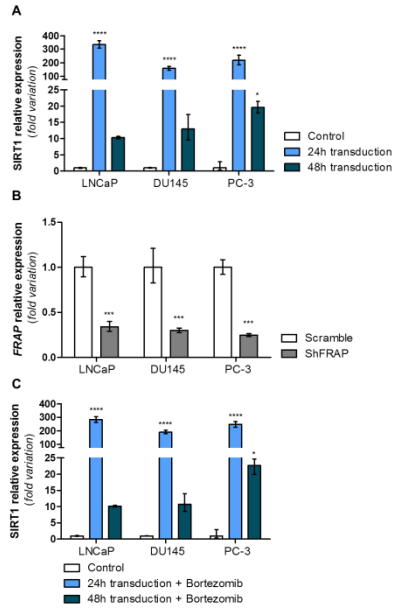
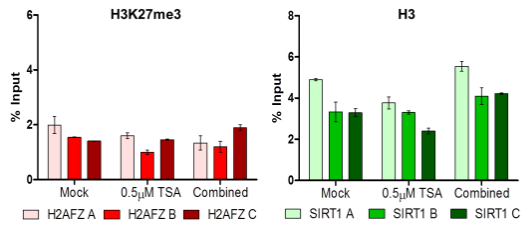


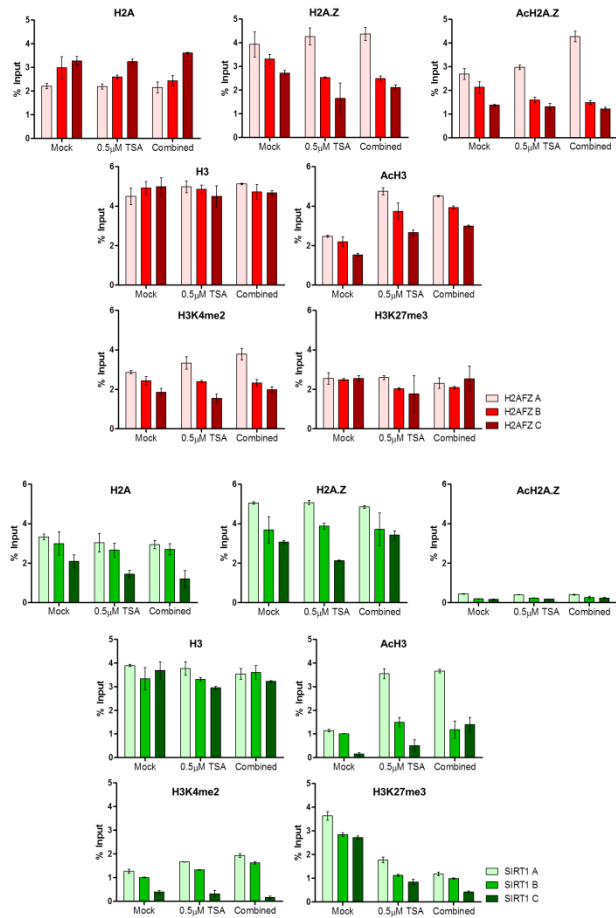
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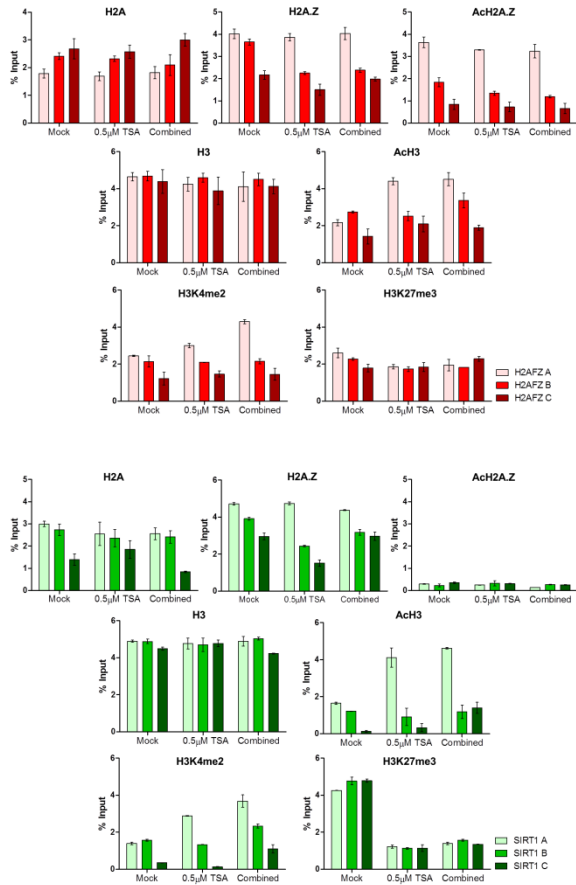
Supplementary Figure 1: Validation of effective (A) and (C) *SIRT1* overexpression and (B) *FRAP* silencing.



Supplementary Figure 2: ChIP assay results in LNCaP cell line regarding H3K27me3 and H3 across *H2AFZ* and *SIRT1* promoters, respectively. Results are normalized with the input of total sonicated chromatin (mean±SD).



Supplementary Figure 3: ChIP assay results in DU145 cell line regarding H2A, H2A.Z, AcH2A.Z, H3, AcH3 H3K4me2 and H3K27me3 histones and histones marks across *H2AFZ* promoter and concerning the same histones and histones marks along *SIRT1* promoter. Results are normalized with the input of total sonicated chromatin (mean±SD).



Supplementary Figure 4: ChIP assay results in PC-3 cell line regarding H2A, H2A.Z, AcH2A.Z, H3, AcH3 H3K4me2 and H3K27me3 histones and histones marks across *H2AFZ* promoter and concerning the same histones and histones marks along *SIRT1* promoter. Results are normalized with the input of total sonicated chromatin (mean±SD).