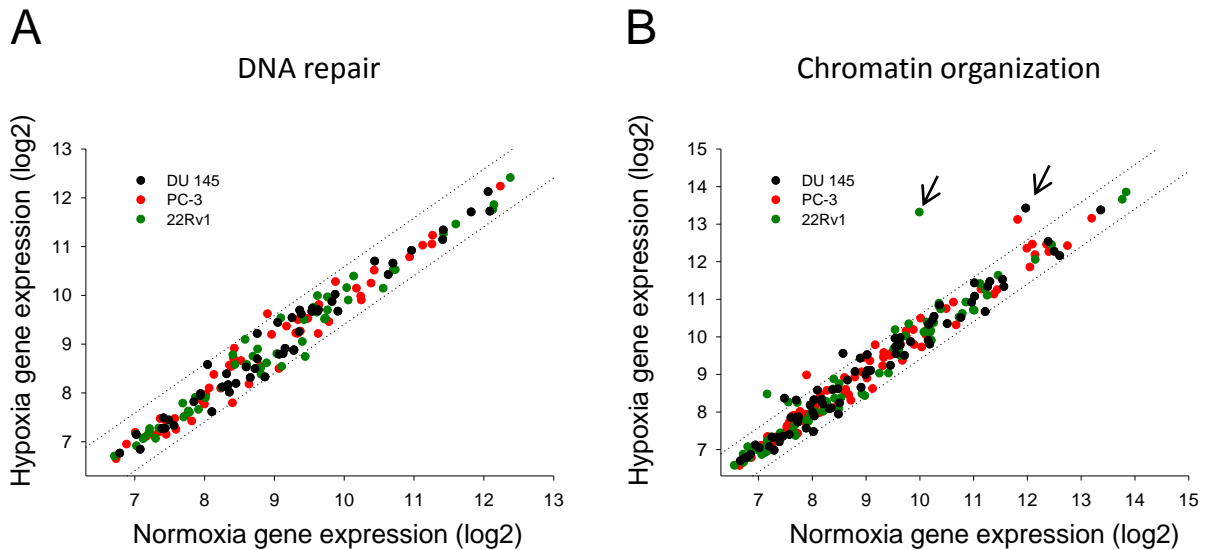


Supplementary Figure S5



Supplementary Figure S5. Hypoxia responsiveness of genes differentially expressed by vorinostat. Gene expression under normoxia versus hypoxia for the DNA repair genes (A) and chromatin organization genes (B) that were significantly more altered by vorinostat in DU 145 than in PC-3 or 22Rv1 prostate cancer cell lines ($P < 0.05$, t-test, three experiments). The genes were selected among the ones that were differentially expressed by vorinostat in DU 145 cells (adj $P < 0.01$, LIMMA, three experiments). Each point represents the mean value of three independent experiments of DU 145 (black), PC-3 (red) and 22Rv1 (green) cells. Stippled lines indicate limits for 2 fold up- and down regulation by hypoxia. All cell lines showed a highly significant correlation between expression under hypoxia and normoxia ($P < 0.001$, Pearson) and only few hypoxia responsive genes were seen. Arrows in (B) point to the hypoxia responsive *BNIP3* gene.