

Figure 1. Human metastatic melanoma cell lines express higher levels of CHD7 protein compared to vertical growth phase melanoma cells and melanocytes.

- (A) Western blot comparing CHD7 levels (330 kDa) in two invasive (A375 and WM1552) and vertical growth phase (WM115) human melanoma cell lines and melanocytes.
- (B) Immunostaining for CHD7 in A375 (upper panel) and WM115 (lower panel) human melanoma cell lines. Nuclei were counterstained with DAPI. Scale bar: 25 um.

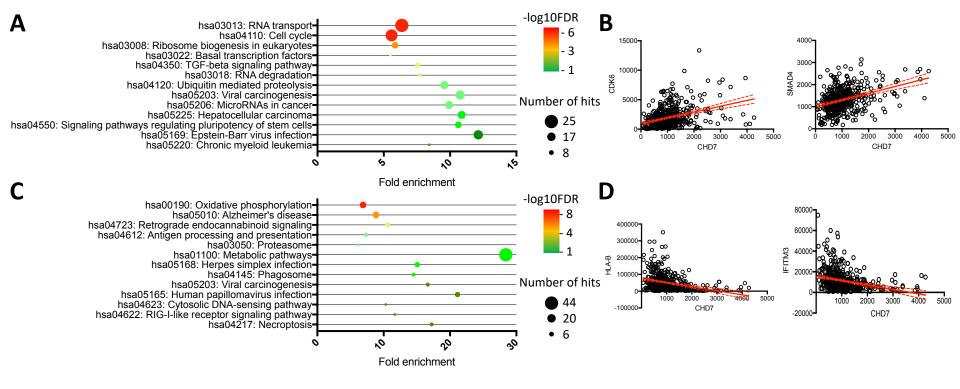


Figure 2. CHD7 expression positively correlates with genes associated to proliferative and invasive phenotype, while negatively correlates with immune-related genes.

- (A) STRING functional enrichment analysis computed on genes which have been shown to positively correlates with CHD7 (Spearman r > 0.3; TCGA dataset, n = 472). Dot plot of the significant over-represented KEGG pathways (FDR < 0.05); the dot size is proportional to the number of genes associated with the pathway and the dot color gradients indicated the significance of the enrichment (-log10FDR).
- (B) Scatter plots of rappresentative genes (normalized counts) with Spearman r > 0.3 from significantly enriched pathways. Linear fit with 95% CI is also reported in red.
- (C) STRING functional enrichment analysis computed on genes which have been shown to positively correlates with CHD7 (Spearman r < -0.3; TCGA dataset, n = 472). Dot plot of the significant over-represented KEGG pathways (FDR < 0.05); the dot size is proportional to the number of genes associated with the pathway and the dot color gradients indicated the significance of the enrichment (-log10FDR).
- (D) Scatter plots of rappresentative genes (normalized counts) with Spearman r < -0.3 from significantly enriched pathways. Linear fit with 95% CI is also reported in red.