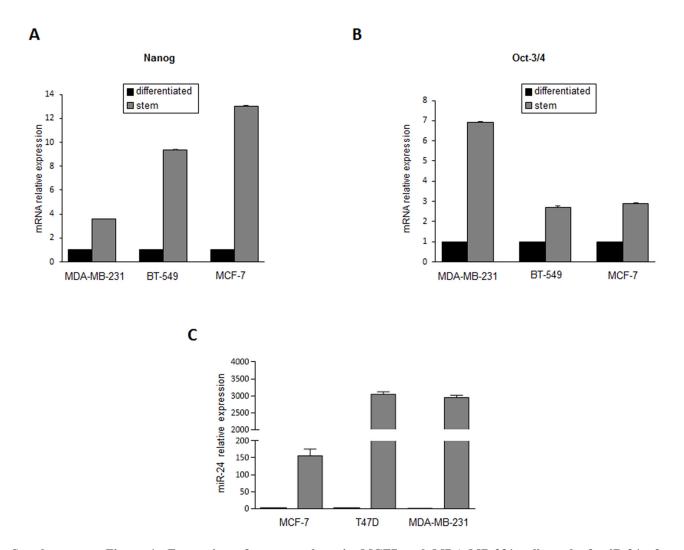
MiR-24 induces chemotherapy resistance and hypoxic advantage in breast cancer

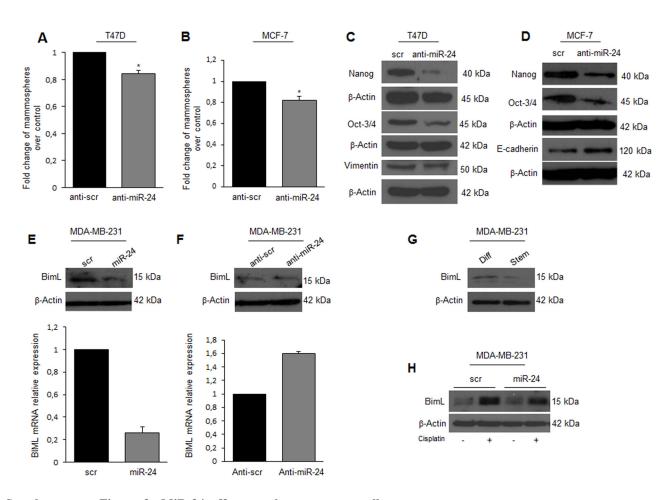
SUPPLEMENTARY FIGURES



Supplementary Figure 1: Expression of stem markers in MCF7 and MDA-MB-231 cells and of miR-24 after transfection. Real time PCR showed the upregulation of *Nanog* and *Oct-3/4* in MDA-MB-231, BT-549 and MCF-7 mammopheres cultures compared to differentiated cells A, B. MiR-24 expression levels in MCF-7, T47D, and MDA-MB-231cells after transfection C.

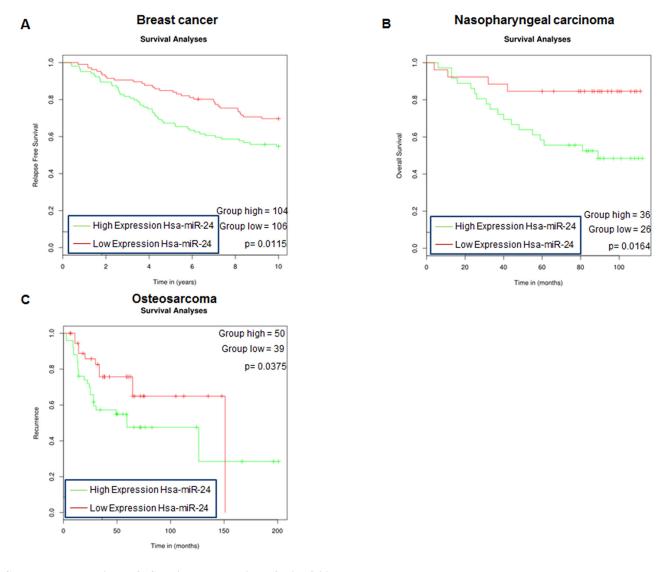


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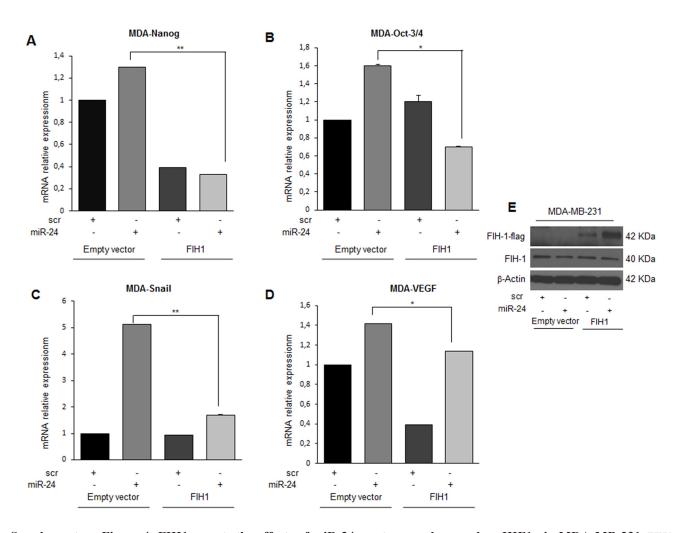


Supplementary Figure 2: MiR-24 effects on breast cancer cells. Anti-miR-24 transfection induced a 20% reduction of mammospheres in both T47D and MCF-7 A, B. and of stem cell markers C, D. MiR-24 downregulates BimL at mRNA and protein levels, as assessed by qRT-PCR and Western blotting in MDA-MB-231 E. On the other hand, anti-miR-24 increased in BimL expression F. Endogenous levels of BimL are higher in MDA-MB-231 differentiated cells compared to stem cells G. MiR-24 transfection reduced cisplatin effect on BimL levels H. Western blotting analyses are from representative experiments. Data are mean values \pm SD of two independent experiments. In A, B, significance was calculated using Student's t-test.*, p<0.05.

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Supplementary Figure 3: Survival correlation of miR-24 in several human cancer datasets. A. GEO dataset Title "Analysis of early primary breast cancer to identify prognostic markers and associated pathways: mRNA and miRNA profiling". **B.** GEO dataset Title "MicroRNA Signatures Correlate with Diagnosis, Distant Metastasis and Prognosis in nasopharyngeal carcinoma". **C.** GEO dataset Title "microRNA- and mRNA-based studies in paraffin-archived human osteosarcoma specimens reveal profiles with reproducible and independent prognostic value".



Supplementary Figure 4: FIH1 reverts the effects of miR-24 on stem markers and on HIF1a in MDA-MB-231. FIH1 cDNA transfection in MDA-MB-231 cells abolished the effect of miR-24 on *Nanog* and *Oct-3/4* expression **A**, **B**. FIH1 also reverted the effect of the miR-24 on *Snail* and *VEGF* **C**, **D**. Western blot analysis of FIH1 expression in the rescue experiment in MDA-MB-231 cells upon hypoxia **E**. In A, B, C, and D data are mean values \pm SD from two independent experiments. Significance was calculated using Student's t-test.*, p<0.05; **, p<0.01.