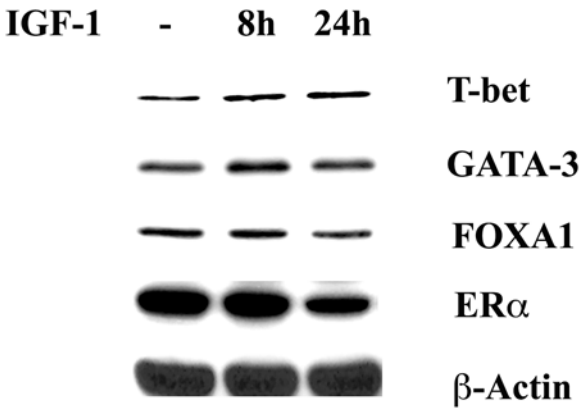
Supplementary figure legends:

Figure S1: IGF-1 induces T-bet expression in MCF-7 cells. MCF-7 cells were treated with one ng/ml IGF-1 (Peprotech, Inc, Rocky Hill, NJ) for indicated time. T-bet, FOXA1, GATA-3 and ERα expression was measured by Western blotting. Note that IGF-1 induced T-bet but reduced FOXA1 and ERα. Unlike insulin, IGF-1 did not reduce GATA-3 levels.

Figure S2: Insulin increases T-bet transcripts. A) MCF-7 cells were treated with insulin (50 ng/ml) for four hours and qRT-PCR with TaqMan probes was performed to measure T-bet transcript levels (n=3). B) Insulin induces STAT-1 phosphorylation in MCF-7, which is main inducer of T-bet. Phospho-specific antibody was used to measure phosphorylation status of STAT-1.

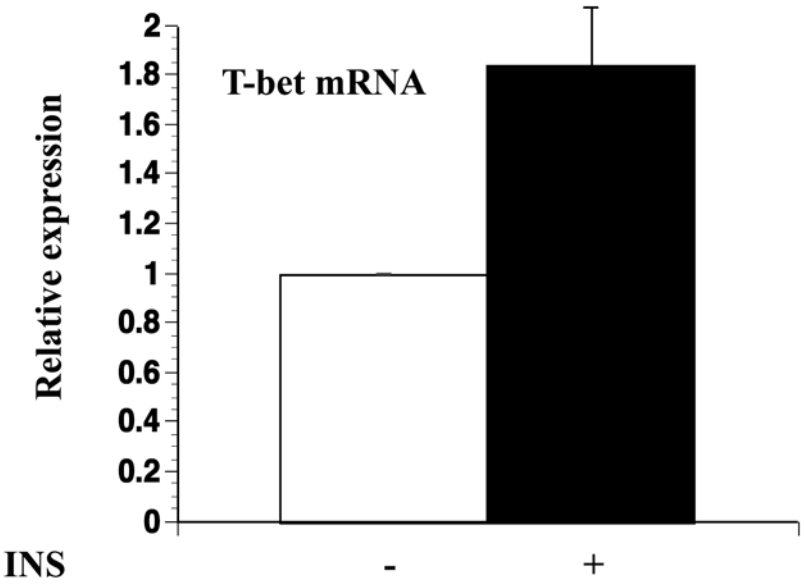
Figure S3: Insulin and T-bet reduce GATA-3 transcript levels. A) GATA-3 transcript levels in untreated cells and cells treated with insulin overnight followed by ethanol or E2 for four hours. qRT-PCR was performed to measure GATA-3 transcript levels. *$p<0.02$, untreated versus various treatments. N=4. B) GATA-3 transcript levels in MCF-7p and MCF-7-T-bet cells as measured by qRT-PCR.

Figure S4: Insulin reduces ERα binding to XBP-1 and GREB-1 enhancer regions but not SMRT enhancer region. MCF-7 cells were pre-treated with insulin overnight followed by E2 for one hour. ChIP assay followed by q-PCR were performed to measure ERα binding to enhancer regions of indicated genes.



McCune etal., Figure S1

A



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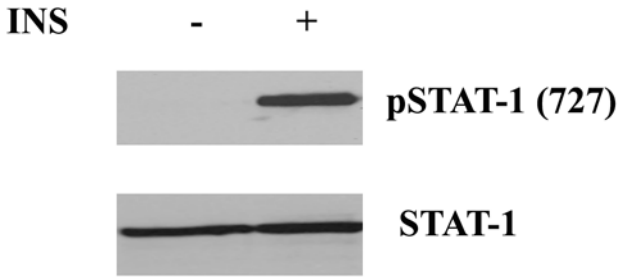
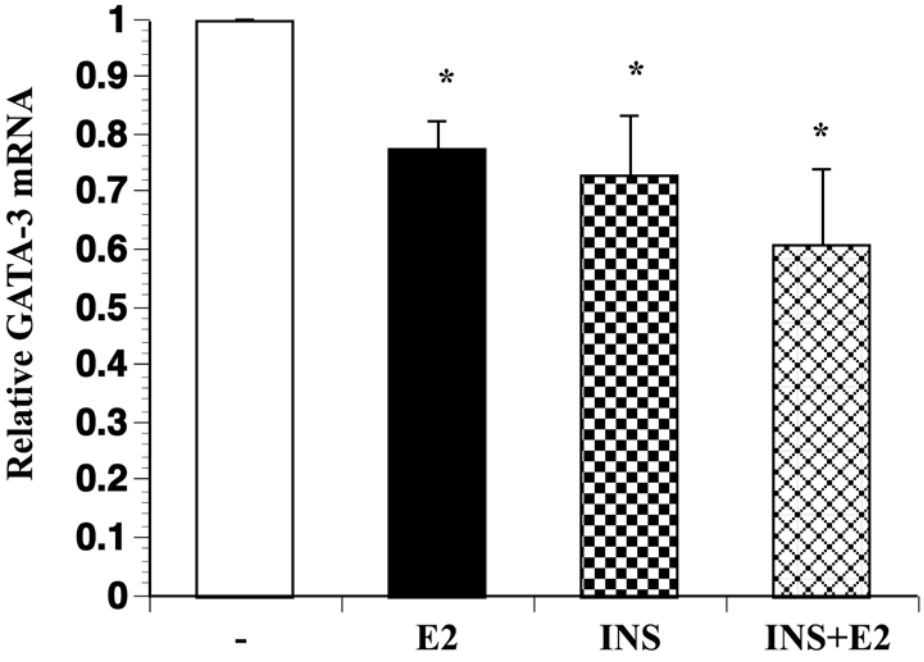
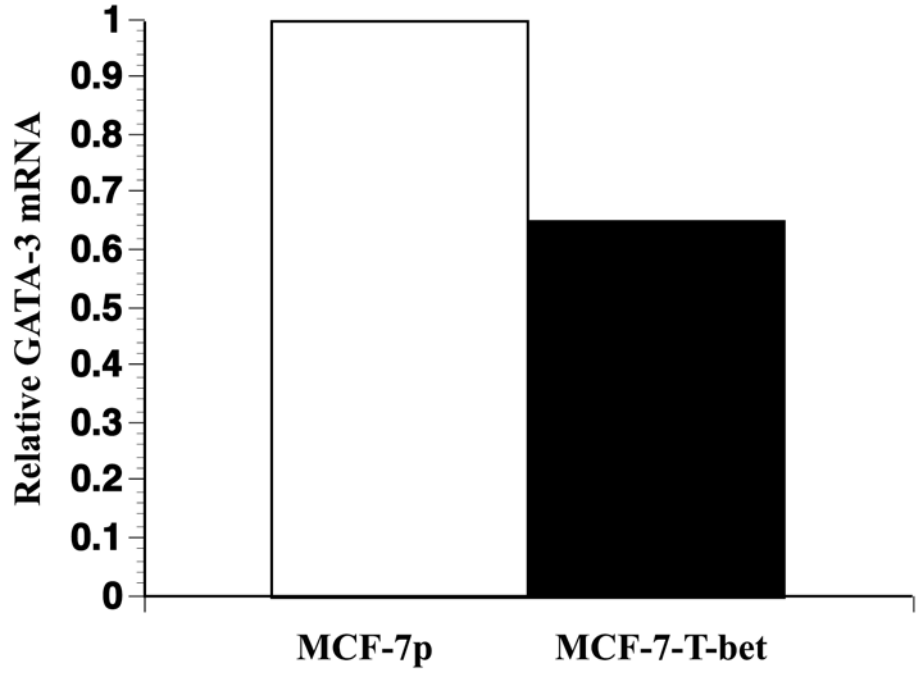
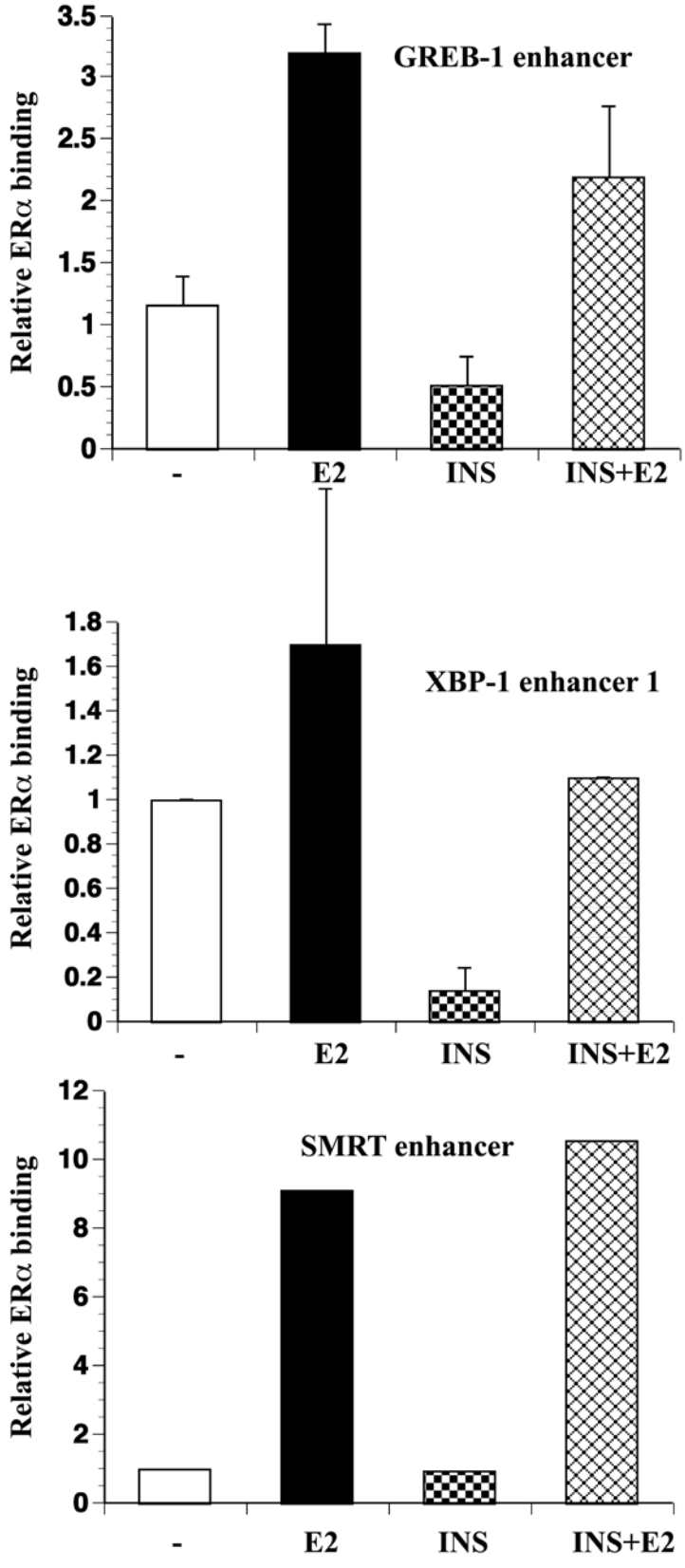


McCune et al., Figure S2





McCune et al., Figure S3



McCune et al., Figure S4