

Supplementary Materials: Mechanical stimulation modulates osteocyte regulation of cancer cell phenotype

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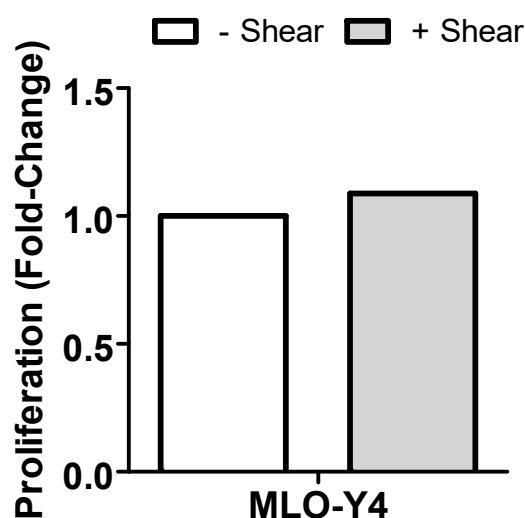


Figure S1. Fold change in proliferation of MLO-Y4 osteocyte cells under loading in organ-chip ($n = 1$ chip per group).

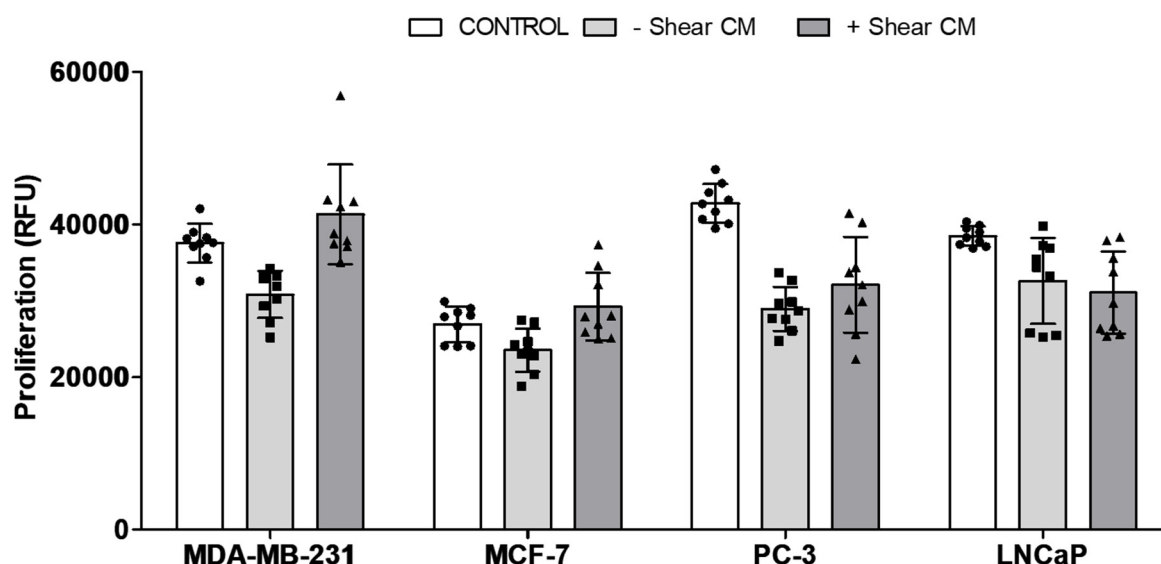


Figure S2. Absolute values in relative fluorescence units for proliferation of breast (MDA-MB-231, MCF-7) and prostate (PC-3, LNCaP) cancer cells when treated with control media, and conditioned media from loaded or unloaded MLO-Y4 osteocytes ($n = 9$, 3 experiments with 3 replicates).

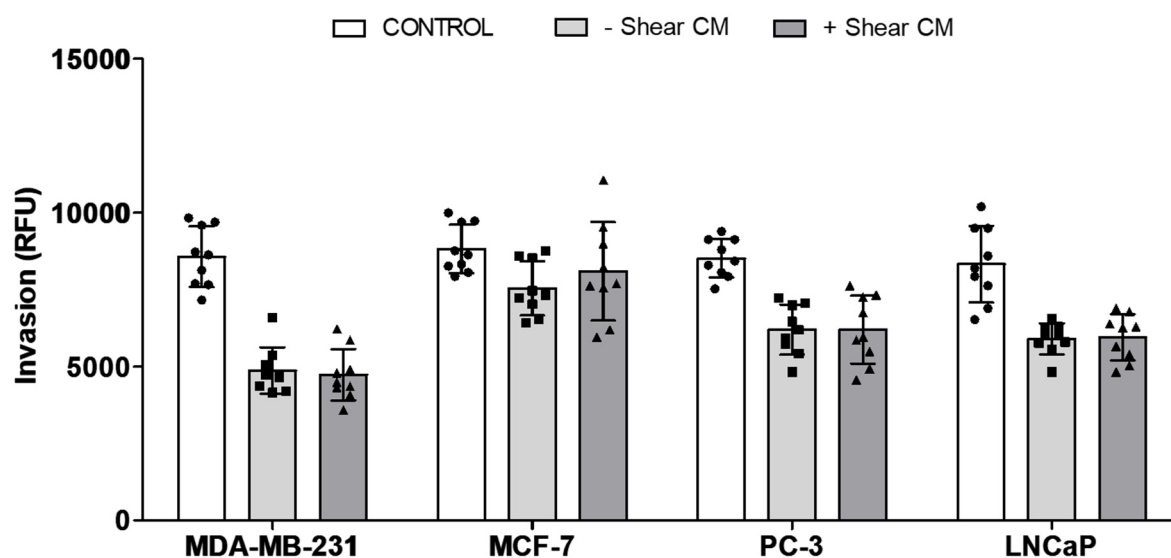


Figure S3. Absolute values in relative fluorescence units for invasion of breast (MDA-MB-231, MCF-7) and prostate (PC-3, LNCaP) cancer cells when treated with control media, and conditioned media from loaded or unloaded MLO-Y4 osteocytes ($n = 9$, 3 experiments with 3 replicates).

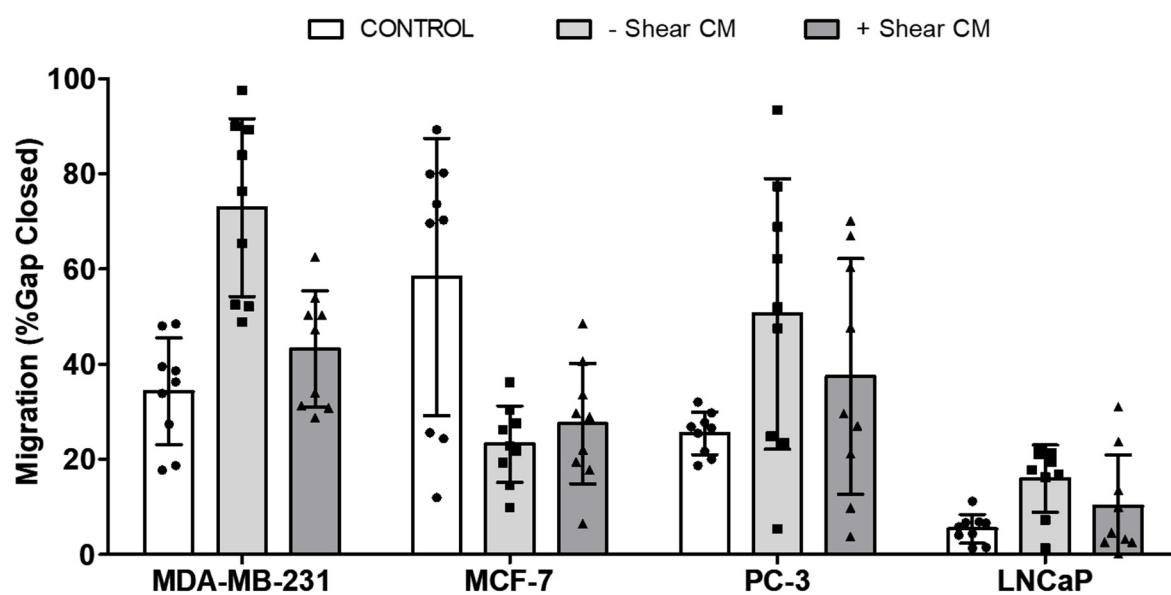


Figure S4. Absolute values for percentage gap closure in a scratch wound migration assay for breast (MDA-MB-231, MCF-7) and prostate (PC-3, LNCaP) cancer cells when treated with control media, and conditioned media from loaded or unloaded MLO-Y4 osteocytes ($n = 9$, 3 experiments with 3 replicates).