

## Supplemental Material

Arsenic-Transformed Malignant Prostate Epithelia Can Convert Noncontiguous Normal Stem Cells into an Oncogenic Phenotype

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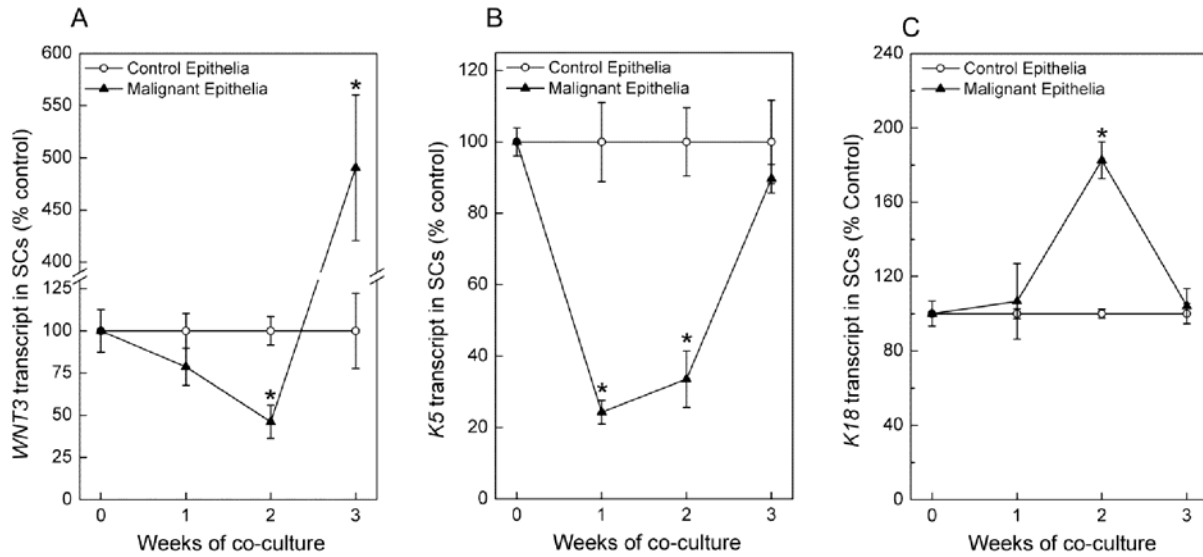
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Supplemental Material, Table 1 Genes and Primers for real time RT-PCR

Gene	GenBank Accession No.	Primers (5' → 3')
P63 (Tumor protein 63)	NM-003722	Forward: CCCCAAGCAGTGCCTCTACA Reverse: GGTGAATCGCACAGCATCAA
NOTCH-1 (Notch homolog 1)	NM_017617	Forward: CGGGTCCACCAGTTTGAATG Reverse: GTTGTATTGGTTCGGCACCAT
OCT4/POU5F1 (OCTomer 4/POU class 5 homeobox 1)	NM_002701	Forward: CCCATTTCACCACACTCTACTC Reverse: CCAGAGCAGTGACAGGAACAGA
WNT3 (Wingless-type MMTV integration site family, member 3)	NM_030753	Forward: GCCTGGTCCCCAAGCAA Reverse: GCTGGGCATGATCTCGATGT
K5 (Keratin 5)	NM_000424	Forward: GTAGCAGCTCCAGCGTCAAAT Reverse: TTGGAAGGCAGTGACTIONGCA
K18 (Keratin 18)	NM_26326	Forward: GCCTTGGACAGCAGCAACTC Reverse: GACACCACTTTGCCATCCACTA
PTEN (Phosphatase and tensin homolog)	NM_000314	Forward: TTCACATCCTACCCCTTTGCA Reverse: TCTGAGCATTCCCTCCATTCC
E-CAD (E-cadherin)	Z18923	Forward: CGGTGGTCAAAGAGCCCTTAC Reverse: CTCCGCCTCCTTCTTCATCATA

All primers are from Sigma-Aldrich Corp., The Woodlands, TX.



Supplemental Figure 1

Supplemental Material, Figure 1 Transcript level expression of WNT3 (A), K5 (B) and K18 (C) in NSCs after non-contact co-culture with MECs (Malignant Epithelial Cells). Transcript Levels of K18 showed an early increase of expression then a decrease, just opposite to the change of transcript levels of undifferentiated marker K5. Quantitative data are presented as mean  $\pm$  SEM, n = 3. \* P < 0.05, compared with time-matched control.